



**PIONEER**  
The Art of Entertainment

ORDER NO.  
ARP2443

STEREO DOUBLE CASSETTE DECK AMPLIFIER

# DC-Z85<sub>SD, YPW</sub>

DC - Z85 HAS THE FOLLOWING :

Type	Power Requirement	Remarks
SD	AC110V, 120 - 127V, 220V, 240V (Switchable)	
YPW	AC240V only	

● Refer to the service manual ARP2169 for DC - Z84/SD.

- This manual is applicable to DC - Z85/SD and YPW.
- These products are systems components.

Each of these products does not function properly when independent ; to avoid malfunctions, be sure to connect it to the prescribed system component (s), otherwise damage may result.

- For adjustment, refer to "ADJUSTMENTS FOR XD - Z54T, XD - Z84T, DC - Z94, DC - Z84 and DC - Z74" (ARP2140).

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DFV FEB. 1992 Printed in Japan

## 1. CONTRAST OF MISCELLANEOUS PARTS

## NOTES:

- Part without part number cannot be supplied.
- The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

DC - Z85/SD, YPW and DC - Z84/SD have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		DC - Z84/ SD type	DC - Z85/ SD type	DC - Z85/ YPW type	
●	AF assembly	AWZ3338	AWZ4106	AWZ4106	*1
●	SUB TRANS assembly	AWR1058	AWR1058	AWR1062	
	2 MECHA assembly	Non supply	Non supply	Non supply	
●	2 MECHA unit (RP)	EXK2015	EXK2017	EXK2017	
$\Delta$	S101 Line voltage selector switch (AC110-127/220-240V)	AKX1004	AKX1004	.....	
$\Delta$	S102 Line voltage selector switch (AC110/120-127/220/240V)	AKX-507	AKX-507	.....	
$\Delta$	T2001 Power transformer	ATS1319	ATS1401	ATS1419	
$\Delta$	FU101 Fuse (T4A/250V)	AEK-400	AEK-514	.....	
$\Delta$	FU101 Fuse (T2A/250V)	.....	.....	AEK-511	
$\Delta$	FU102 Fuse (T1.6A/250V)	AEK-405	AEK-510	AEK-510	
$\Delta$	FU103 Fuse (T1.6A/250V)	AEK-405	AEK-510	.....	
$\Delta$	FU151, FU152 Fuse (T800mA/250V)	AEK-031	AEK-507	AEK-507	
$\Delta$	AC Power cord	ADG1051	ADG1051	ADG1050	
$\Delta$	AC Outlet 1P	.....	.....	AKP-517	
	Cursor button	AAD1900	AAD2216	AAD2216	
	AI button	AAD1901	AAD2217	AAD2217	
	Decorative plate B (DECK)	AAK2072	AAK2280	AAK2280	
	AI decorative plate	AAK2073	AAK2281	AAK2281	
	Cassette door (R)	AAN1250	AAN1319	AAN1319	
	Cassette door (L)	AAN1251	AAN1318	AAN1318	
	Front panel	AMB1743	AMB1959	AMB1959	
	Packing case	AHD1966	AHD2240	AHD2240	
	Operating instructions (English)	ARB1281	ARB1354	ARB1354	
	Operating instructions (Spanish)	ARC1234	ARC1327	.....	

\*1 : 2 MECHA assemblies of DC - Z85/SD and YPW types are the same.

● 2 MECHA UNIT (EXK2017)

2 MECHA unit (EXK2017) and 2 MECHA unit (EXK2015) have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		EXK 2015	EXK2017	
	R/P Head assembly	EXX1007	EXX1013	

● AF ASSEMBLY (AWZ4106)

AF assembly (AWZ4106) and AF assembly (AWZ3338) have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ3338	AWZ4106	
	IC301	STK4162-2GP	STK4192-2GP	
	C151, C152 (3300/50)	ACH1017	.....	
	C151, C152 (5600/50)	.....	ACH1145	
	C1006	CKDYB152K50	CKCYB152K50	
	C1007, C1008	CKDYB562K50	CKCYB562K50	
	R416	RS2LMF331J	RS2LMF391J	

● SUB TRANS ASSEMBLY (AWR1062)

SUB TRANS assembly (AWR1062) and SUB TRANS assembly (AWR1058) have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWR1058	AWR1062	
	T101	ATT1144	ATT1149	
△	AC Outlet 1P	AKP1078	.....	

2 MECHA ASSEMBLY (DC-Z85/SD and YPW)

2 MECHA assembly (DC-Z85/SD and YPW) and 2 MECHA assembly (DC-Z84/SD) have the same construction except for the following :

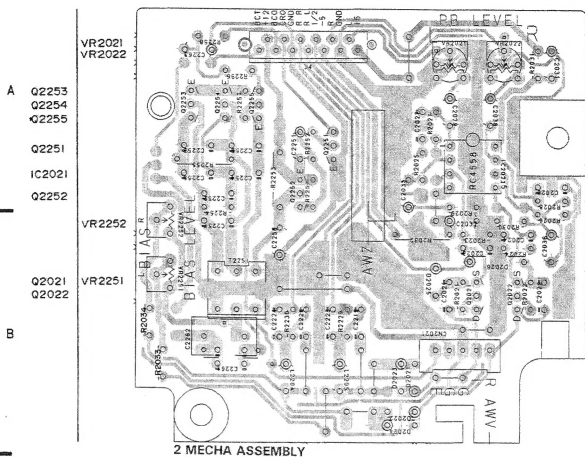
Mark	Symbol & Description	Part No.		Remarks
		DC-Z84/SD	DC-Z85/SD, YPW	
	C2219, C2220	CCDSL271K500	CCCSL271K500	
	C2259, C2260	CCCSL101K500	.....	
	R2033, R2034	.....	RD1/8PM333J	

2.1 2 MECHA ASSEMBLY AND 2 MECHA UNIT





This P. C. B connection diagram is viewed from the parts mounted side.



## NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

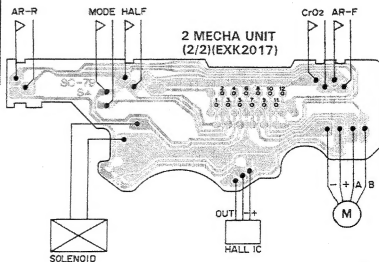
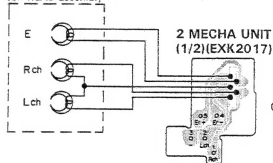
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarized)
		Capacitor (Non-polarized)

## Others

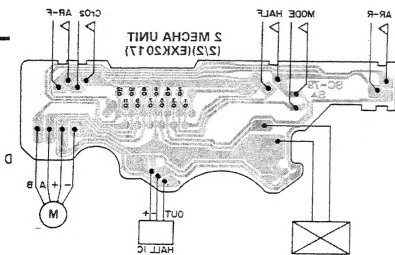
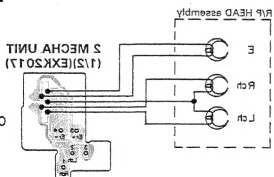
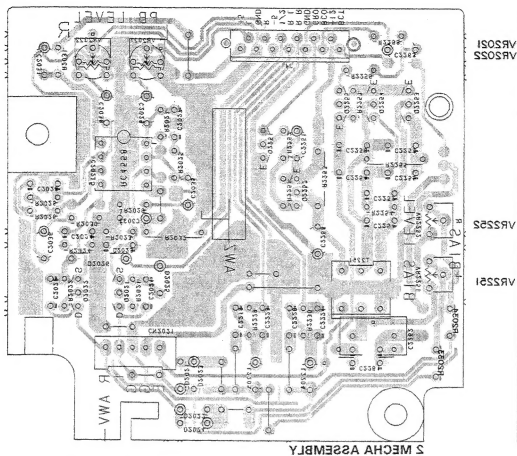
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⊕ (double circles) shows negative terminal.
4. The diode terminal marked with ⊕ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

## R/P HEAD assembly

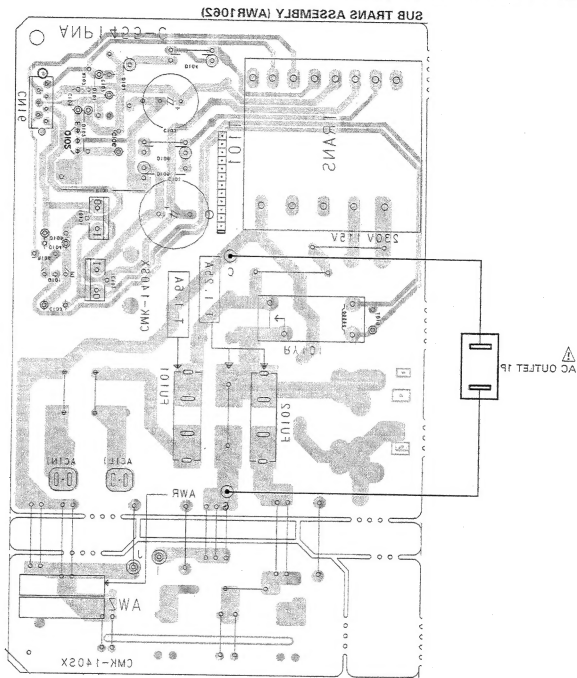


This P. C. B. connection diagram is viewed from the foil side.



## 2.2 SUB TRANS ASSEMBLY (AWR1062)

This P. C. B. connection diagram is viewed from the foil side.



SUB TRANS ASSEMBLY (AWR1062)



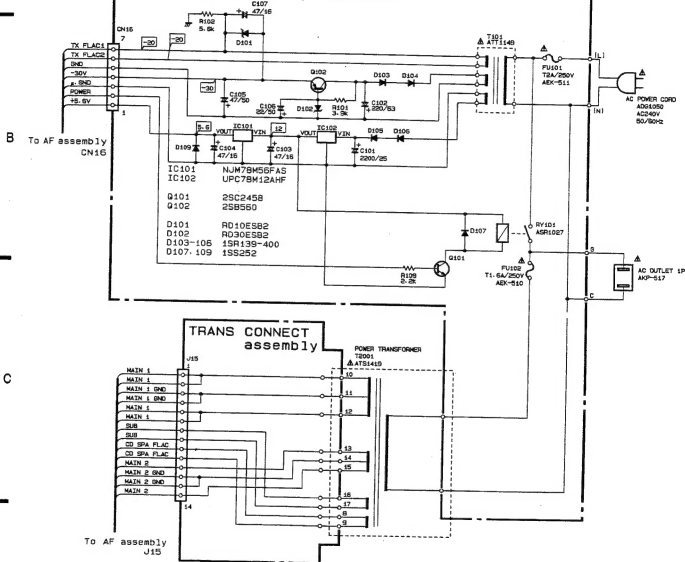
a. main I/O connection diagram is viewed from the parts mounted side

- Order

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Fiber
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with  $\oplus$  (double circles) shows negative terminal.
4. The diode terminal marked with  $\oplus$  (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

## SUB TRANS assembly (AWR1062)



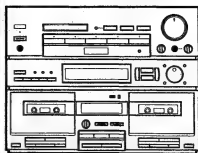


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2954

# Service Manual

**PIONEER**  
The Art of Entertainment



ORDER NO.  
**ARP2169**

## STEREO DOUBLE CASSETTE DECK AMPLIFIER

# DC-Z84

### DC-Z84 HAS THE FOLLOWING :

Type	Power Requirement	Remarks
SD	AC110V, 120V-127V, 220V, 240V (Switchable)	
YPW	AC240V only	

- This manual is applicable to the DC-Z84/SD and YPW types.
- As to the YPW type, refer to pages 51-54.
- This product is a component of a system. As to the system composition, refer to the system manual.
- For adjustment refer to ADJUSTMENTS FOR XD-Z54T, XD-Z84T, DC-Z94, DC-Z84 and DC-Z74 (ARP2140).

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# 1. EXPLODED VIEWS, PACKING AND PARTS LIST

## NOTES:

- Parts without part number cannot be supplied.
- The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "◎" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

## 1.1 EXTERIOR AND PACKING

Parts list of Exterior and Packing

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	ROTARY KNOB (BALANCE, MIC LEVEL, DOLBY NR)	AAB1136	41	COUNTER BELT		AEB1161
	2	VOL KNOB (VOLUME)	AAB1200	42	NYLON BINDER		
	3	ROTARY KNOB (SOUND JOG)	AAB1202	43	LEG ASSEMBLY		AEC-847
	4	POWER BUTTON	AAD1674	44	STRAIN RELIEF		AEC-882
	5	KIN BUTTON (MEMORY, LOUDNESS)	AAD1682	45	NYLON RIVET		AEC1160
	6	FUNCTION BUTTON	AAD1894	46	DRY CELL BATTERY (R03, AAA)		
	7	REC. COPY BUTTON	AAD1895	47	FRONT PAD L, R		AHA1404
	8	DECK PLAY BUTTON	AAD1896	48	REAR PAD L, R		AHA1405
	9	EJECT BUTTON L	AAD1898	49	PACKING CASE		AHD1966
	10	GEQ BUTTON	AAD1899	50	SHEET		
	11	CURSOR BUTTON	AAD1900	51	TERMINAL SCREW		
	12	AI BUTTON	AAD1901	52	FRONT PANEL		AMB1743
	13	EJECT BUTTON R	AAD1922	53	CHASSIS		
	14	LENS (POWER IND.)	AAK1800	54	REAR PANEL		
	15	FILTER (REMOTE SENSOR)	AAK1812	55	BONNET		ANE1298
	16	DECORATIVE PLATE (DOOR)	AAK2065	56	PACK HOLDER		
	17	DECORATIVE PLATE A	AAK2071	57	HEAT SINK HOLDER B		
	18	DECORATIVE PLATE B	AAK2072	58	PRESSURE METAL		
	19	AI DECORATIVE PLATE	AAK2073	59	HEAT SINK HOLDER A		
	20	DECORATIVE PLATE (GEQ)	AAK2074	60	PCB HOLDER		
	21	INDICATOR LENS	AAK2075	61	HOLDER		
◎	22	AF ASSEMBLY	AWZ3338	62	HEAT SINK		
	23	CASSETTE DOOR R	AAK1250	63	SHIELD PLATE (MECHA)		
	24	CASSETTE DOOR L	AAK1251	64	OPERATING INSTRUCTIONS (ENGLISH)		ARB1281
	25	COUNTER	AAW1009	65	OPERATING INSTRUCTIONS (SPANISH)		ARC1234
◎	26	GEQ ASSEMBLY	AWX1048	66	TRANS CONNECT ASSEMBLY		
	27	VR ASSEMBLY		◎ 67	DISPLAY ASSEMBLY		AWZ3351
	28	HEAD PHONE ASSEMBLY		68	1 MECHA SW ASSEMBLY		
	29	FABEL (PAPER)	AAX1301	◎ 69	SUB TRANS ASSY		AWR1058
	30	SCREW	ABA-298	70	2 MECHA SW ASSEMBLY		
	31	SCREW (STEEL)	ABA1009	71	DAMPER ASSEMBLY		AXA1008
	32	SCREW (STEEL)	ABA1011	72	REMOTE CONTROL UNIT (CU-DC022)		AXD1183
	33	SCREW	ABA1018	73	SCREW		BZ30P080FZK
	34	SCREW	ABA1082	74	SCREW		BPZ26P080FMC
	35	SCREW (STEEL)	ABA1095	75	2 MECHA UNIT		EXK2010
	36	DOOR SPRING L	ABH1068	76	1 MECHA UNIT		EXK2020
	37	DOOR SPRING R	ABH1069	77	NUT		NK90FUC
	38	KEEP PLATE	ABK1016	78	SCREW		VPZ30P080FMC
	39	NUT	ABN1016				
△	40	AC POWER CORD	ADG1051				



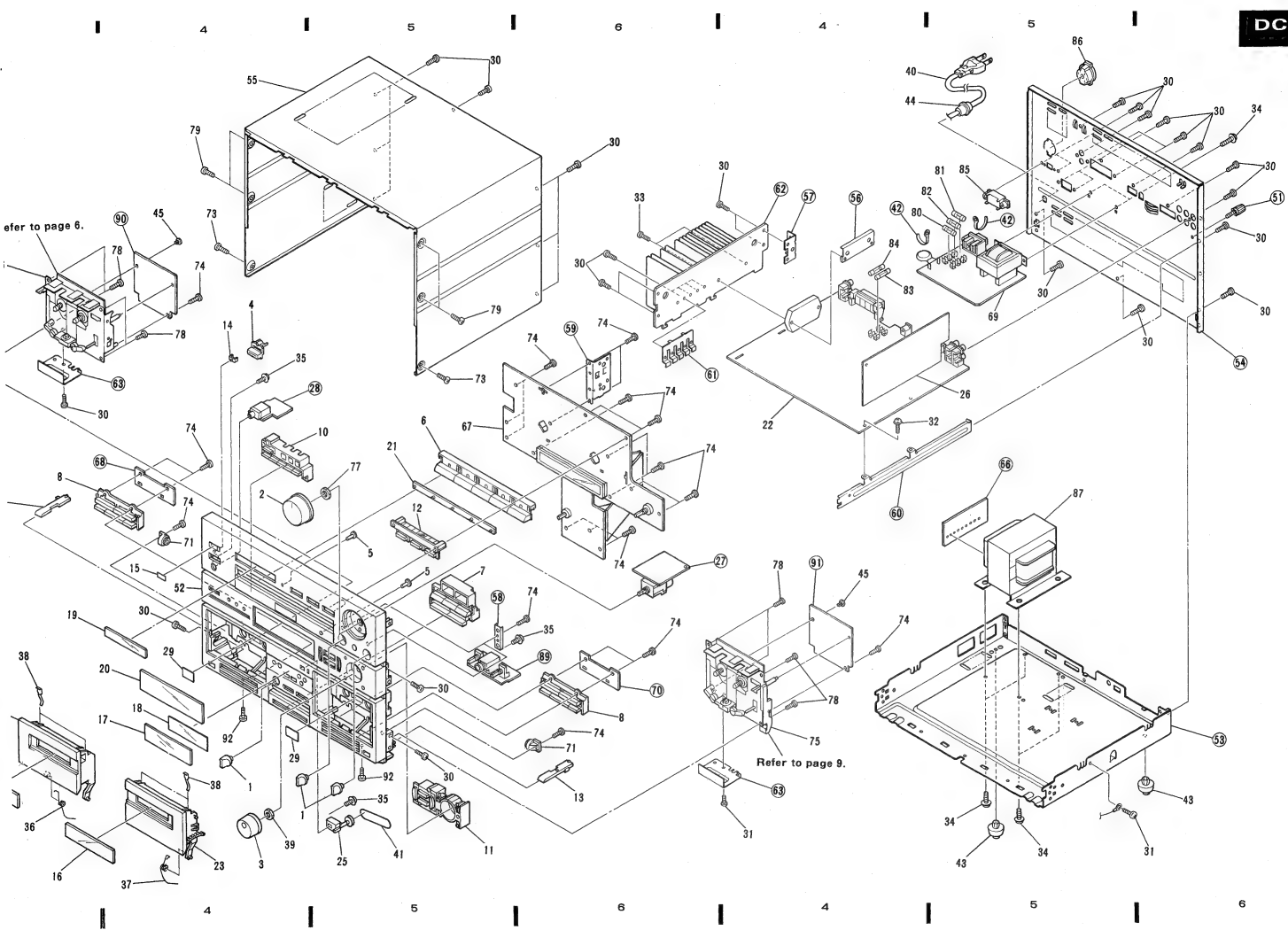
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## C



Refer to page 6.





A  
B  
C  
D  
5

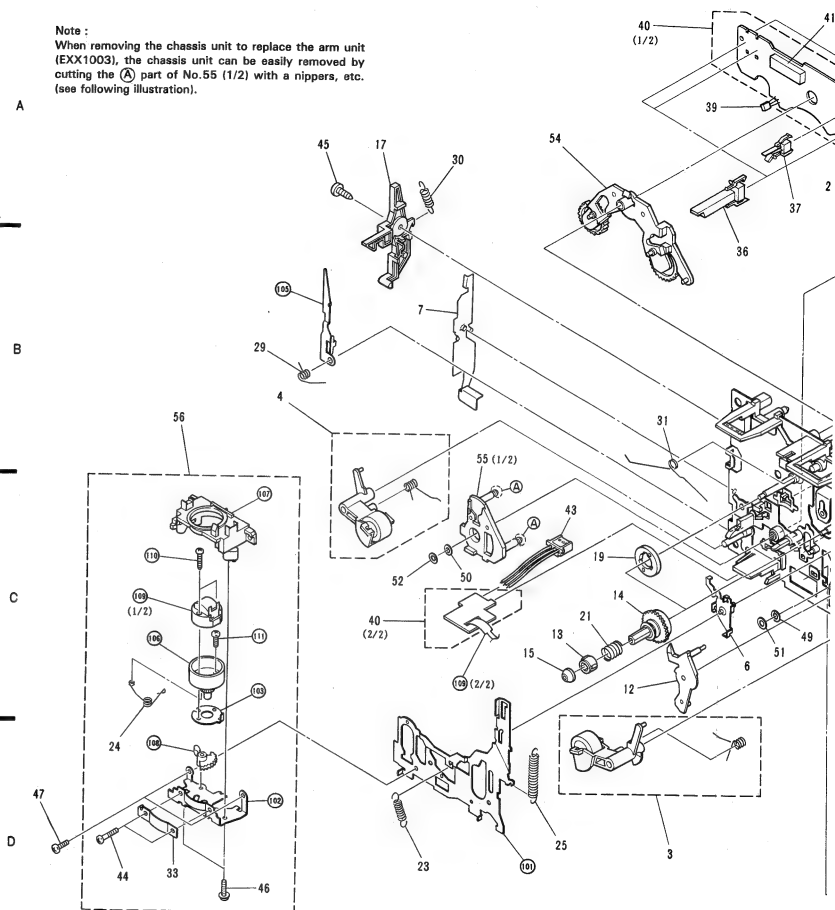
## 1.2 1 MECHA UNIT (EXK2020)

## Parts list of 1 Mecha unit

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	FLYWHEEL UNIT (FWD)	EXA1102		51	WASHER	EBF1010
	2	FLYWHEEL UNIT (RVS)	EXA1103		52	WASHER	EBF1011
	3	ROLLER UNIT (FWD)	EXA1104		53	.....	.....
	4	ROLLER UNIT (RVS)	EXA1105		54	ARM UNIT	EXX1002
	5	LIMITER UNIT	EXA1106		55	ARM UNIT	EXX1003
	6	LEVER UNIT	EXA1107		56	P HEAD ASSEMBLY	EXX1005
	7	ARM	AZ2N2063				
	8	NR LEVER	ENV1155				
	9	BRAKE	ENV1157				
	10	CAM GEAR	ENV1158				
	11	LOCK ARM	ENV1159		101	HEAD BASE	
	12	NR ARM	ENV1163		102	BRACKET	
	13	REEL COLLAR	ENV1164		103	PLATE	
	14	REEL	ENV1170		104	BRACKET	
	15	REEL BUSH	ENV1178		105	ARM	
	16	ARM	ENV1181		106	HOLDER	
	17	ARM	AZ2N2069		107	HOLDER	
	18	BUSH	ENV1184		108	GEAR	
	19	MAGNET	ENV1185		109	P HEAD UNIT	
	20	BELT	ENT1015		110	SCREW	
	21	SPRING	EBH1201		111	SCREW	
	22	SPRING	EBH1202		112	CHASSIS UNIT	
	23	SPRING	EBH1203				
	24	SPRING	EBH1204				
	25	SPRING	EBH1208				
	26	SPRING	EBH1209				
	27	SPRING	EBH1210				
	28	SPRING	EBH1211				
	29	SPRING	EBH1255				
	30	SPRING	EBH1213				
	31	SPRING	EBH1220				
	32	SPRING	EBH1256				
	33	SPRING	EBL1013				
	34	SPRING	EBL1014				
	35	MOTOR UNIT	EXA1108				
	36	SWITCH (Detect)	ESN1003				
	37	SWITCH (Mode)	ESN1004				
	38	SOLENOID	EXP1005				
	39	HALL IC	DN6847SE				
	40	P.C.BOARD	ENX1002				
	41	CONNECTOR	EKS1013				
	42	LEAD WIRE	EDD1003				
	43	CONNECTOR	EDE1009				
	44	SCREW	EBA1020				
	45	SCREW	EBA1021				
	46	SCREW (M2×8)	ATZ20P080FMC				
	47	SCREW	BSZ20P050FMC				
	48	SCREW	PMS26P025FCU				
	49	WASHER	EBF1006				
	50	WASHER	EBF1009				

## Note :

When removing the chassis unit to replace the arm unit (EXX1003), the chassis unit can be easily removed by cutting the (A) part of No.55 (1/2) with a nippers, etc. (see following illustration).



Note :  
When removing the chassis unit to replace the arm unit  
(EXX1003), the chassis unit can be easily removed by  
cutting the (A) part of No.55 (1/2) with a nippers, etc.  
(see following illustration).

A

B

C

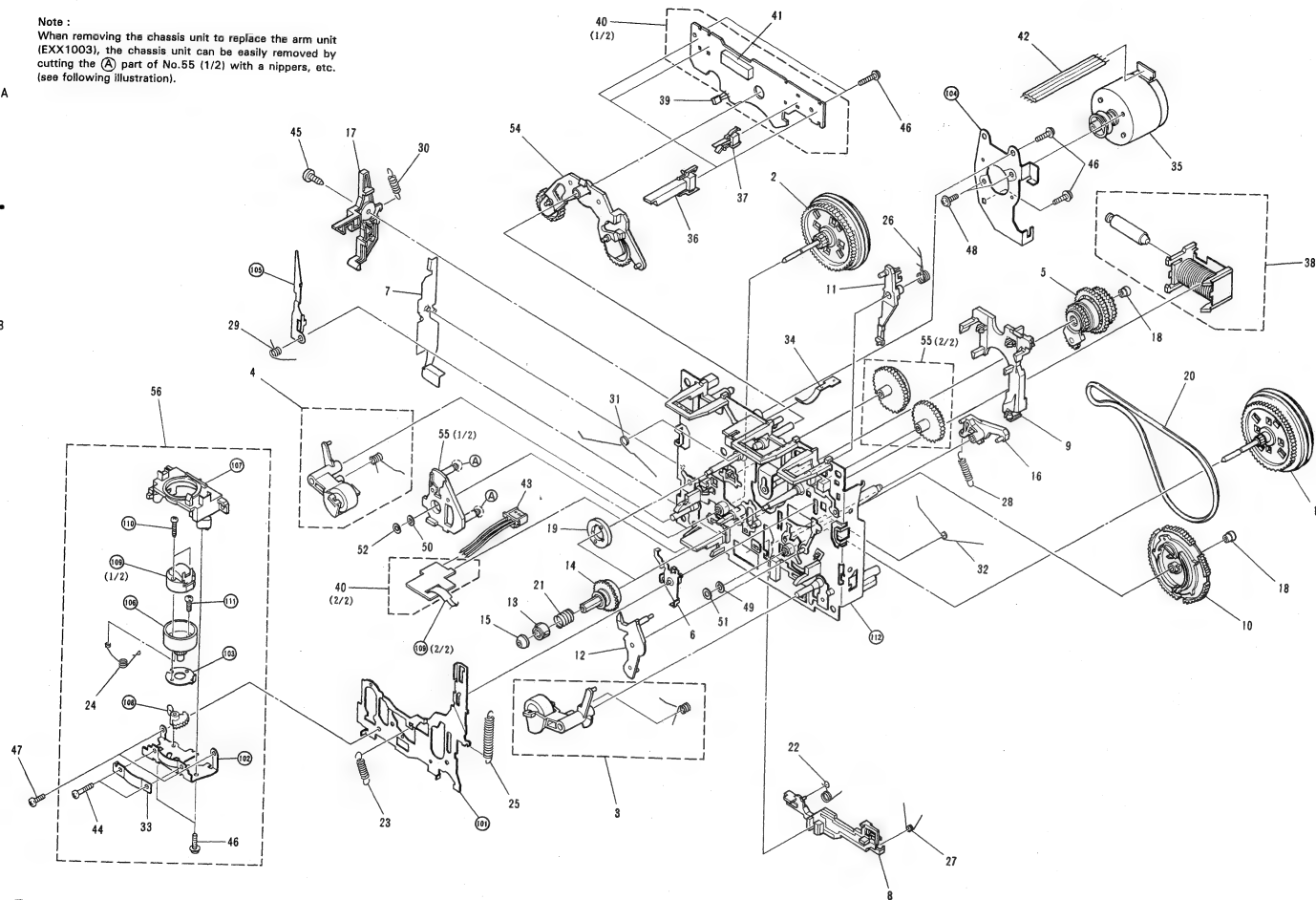
D

A

B

C

D



### 1.3 2 MECHA UNIT (EXK2010)

Parts list of 2 Mecha unit

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	FLYWHEEL UNIT (FWD)	EXA1102		51	WASHER	EBF1010
	2	FLYWHEEL UNIT (RVS)	EXA1103		52	WASHER	EBF1011
	3	ROLLER UNIT (FWD)	EXA1104		53	.....	.....
	4	ROLLER UNIT (RVS)	EXA1105		54	ARM UNIT	EXX1002
	5	LIMITER UNIT	EXA1106		55	ARM UNIT	EXX1003
	6	LEVER UNIT	EXA1107		56	R/P HEAD ASSEMBLY	EXX1004
	7	ARM	AZN2064				
	8	NR LEVER	ENV1155				
	9	BRAKE	ENV1157				
	10	CAM GEAR	ENV1158				
	11	LOCK ARM	ENV1159		101	HEAD BASE	
	12	NR ARM	ENV1163		102	BRACKET	
	13	REEL COLLAR	ENV1164		103	PLATE	
	14	REEL	ENV1170		104	BRACKET	
	15	REEL BUSH	ENV1178		105	ARM	
	16	ARM	ENV1181		106	HOLDER	
	17	ARM	AZN2070		107	HOLDER	
	18	BUSH	ENV1184		108	GEAR	
	19	MAGNET	ENV1185		109	R/P HEAD UNIT	
	20	BELT	ENT1015		110	SCREW	
	21	SPRING	EBH1201		111	SCREW	
	22	SPRING	EBH1202		112	CHASSIS UNIT	
	23	SPRING	EBH1203				
	24	SPRING	EBH1204				
	25	SPRING	EBH1208				
	26	SPRING	EBH1209				
	27	SPRING	EBH1210				
	28	SPRING	EBH1211				
	29	SPRING	EBH1254				
	30	SPRING	EBH1213				
	31	SPRING	EBH1220				
	32	SPRING	EBH1256				
	33	SPRING	EBL1013				
	34	SPRING	EBL1014				
	35	MOTOR UNIT	EXA1108				
	36	SWITCH (Detect)	ESN1003				
	37	SWITCH (Mode)	ESN1004				
	38	SOLENOID	EXP1005				
	39	HALL IC	DN6847SE				
	40	P.C.BOARD	ENX1002				
	41	CONNECTOR	EKS1012				
	42	LEAD WIRE	EDD1003				
	43	CONNECTOR	EDL1008				
	44	SCREW	EBA1020				
	45	SCREW	EBA1021				
	46	SCREW (M2 × 8)	AT220P080FMC				
	47	SCREW	BSZ20P060FMC				
	48	SCREW	PMS32P025FCU				
	49	WASHER	EBF1008				
	50	WASHER	EBF1009				

Note :

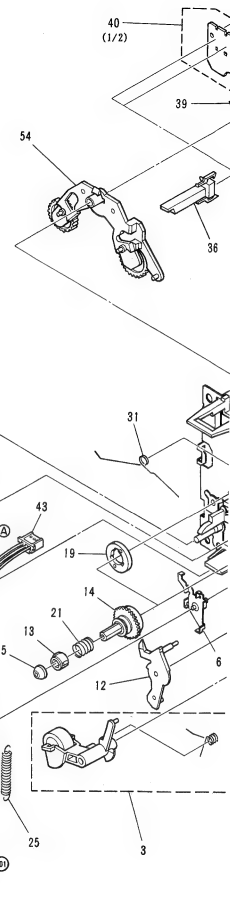
When removing the chassis unit to replace the arm unit (EXX1003), the chassis unit can be easily removed by cutting the (A) part of No.55 (1/2) with a nippers, etc. (see following illustration).

A

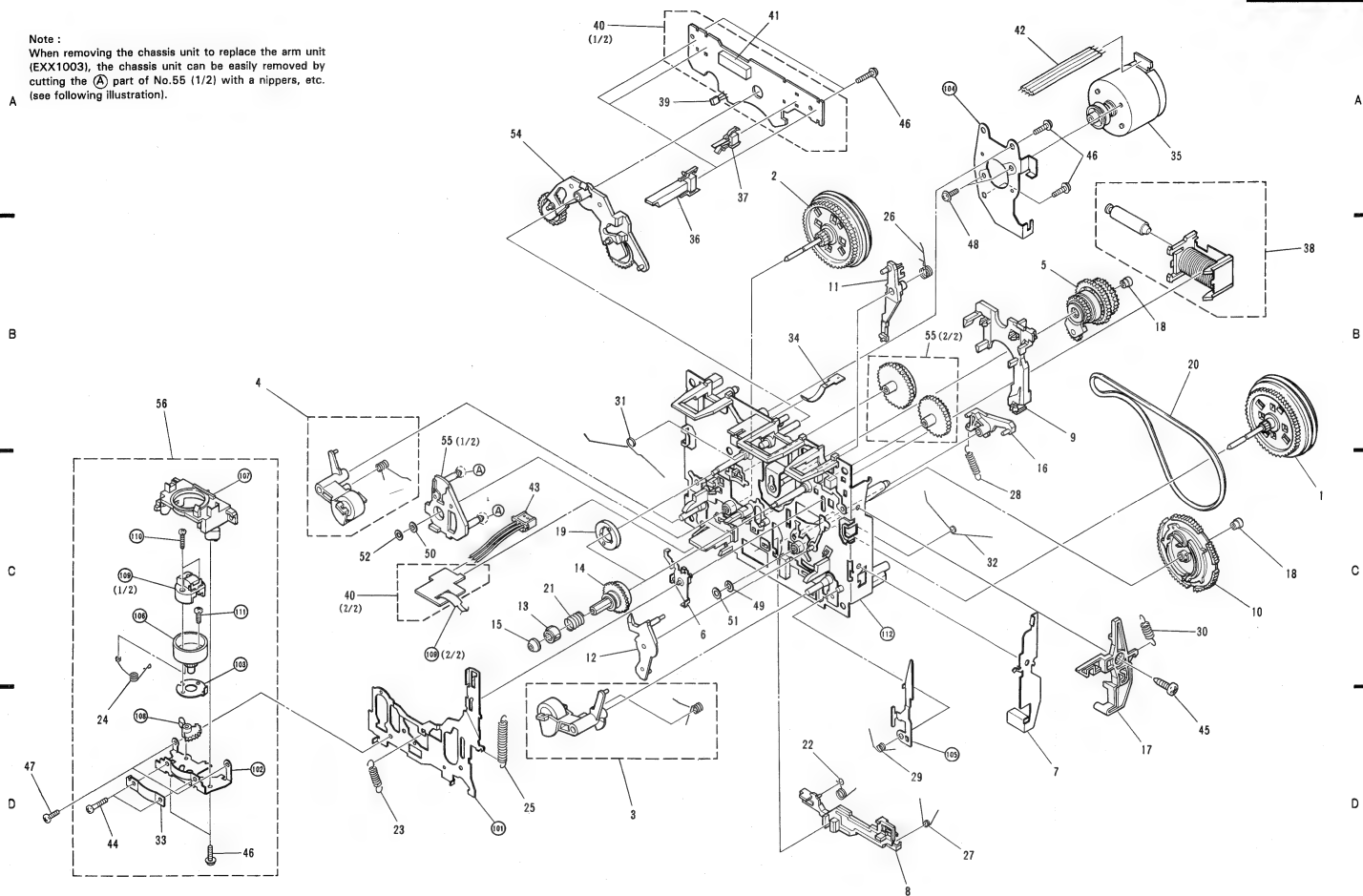
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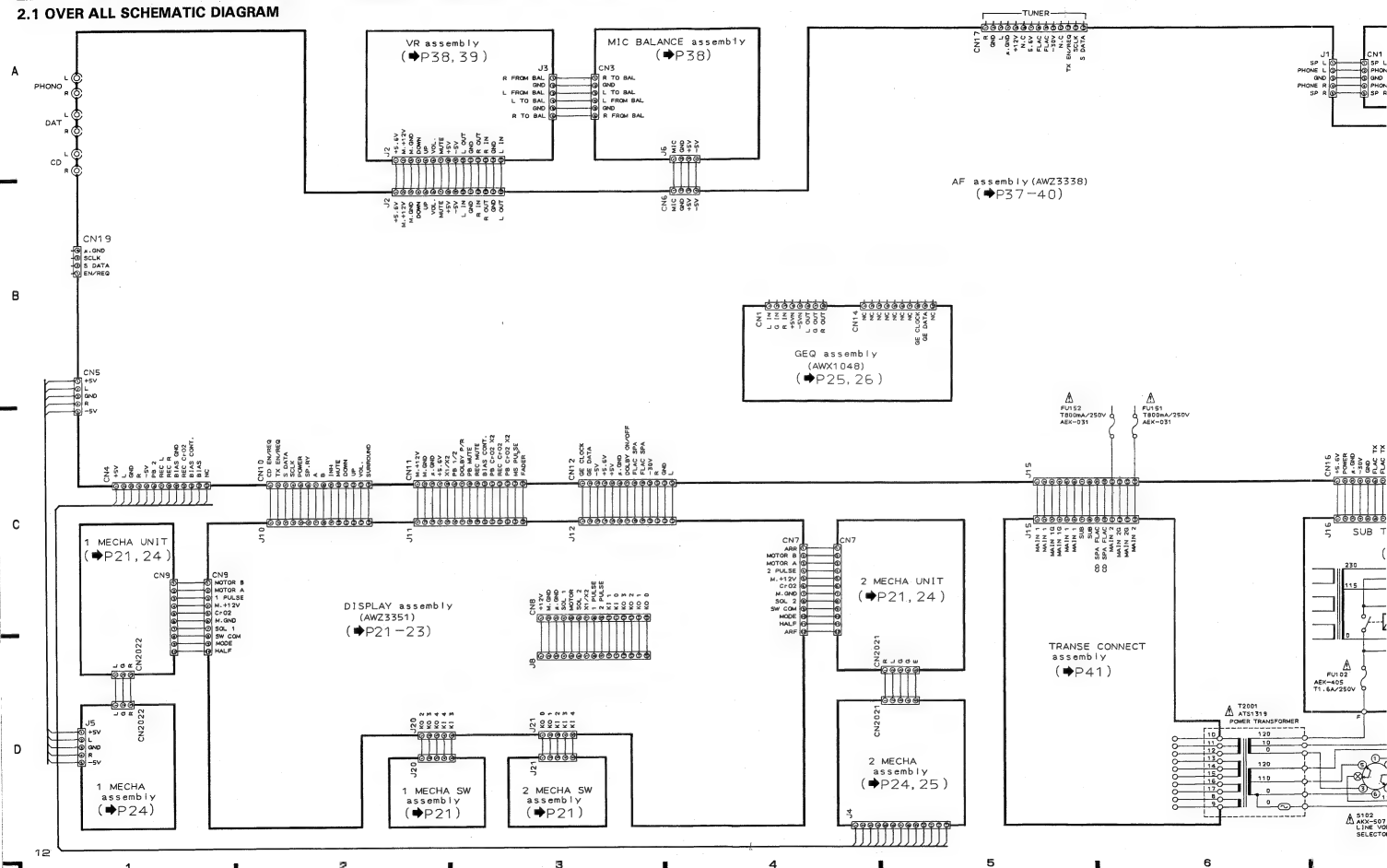


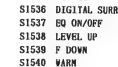
Note :  
When removing the chassis unit to replace the arm unit (EXX1003), the chassis unit can be easily removed by cutting the (A) part of No.55 (1/2) with a nippers, etc. (see following illustration).



## 2. SCHEMATIC DIAGRAM AND P.C.BOARDS CONNECTION DIAGRAM

### 2.1 OVER ALL SCHEMATIC DIAGRAM





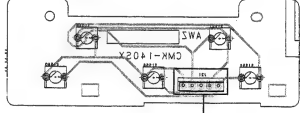




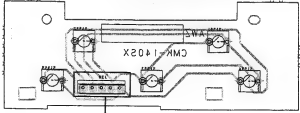
and 2 MECHA UNIT (EXK2010)  
2 MECHA SW assembly, 1 MECHA UNIT (EXK2020)  
2.2 DISPLAY (WAZ3409), 1 MECHA SW,

(To page 32)  
To AF assembly CN10

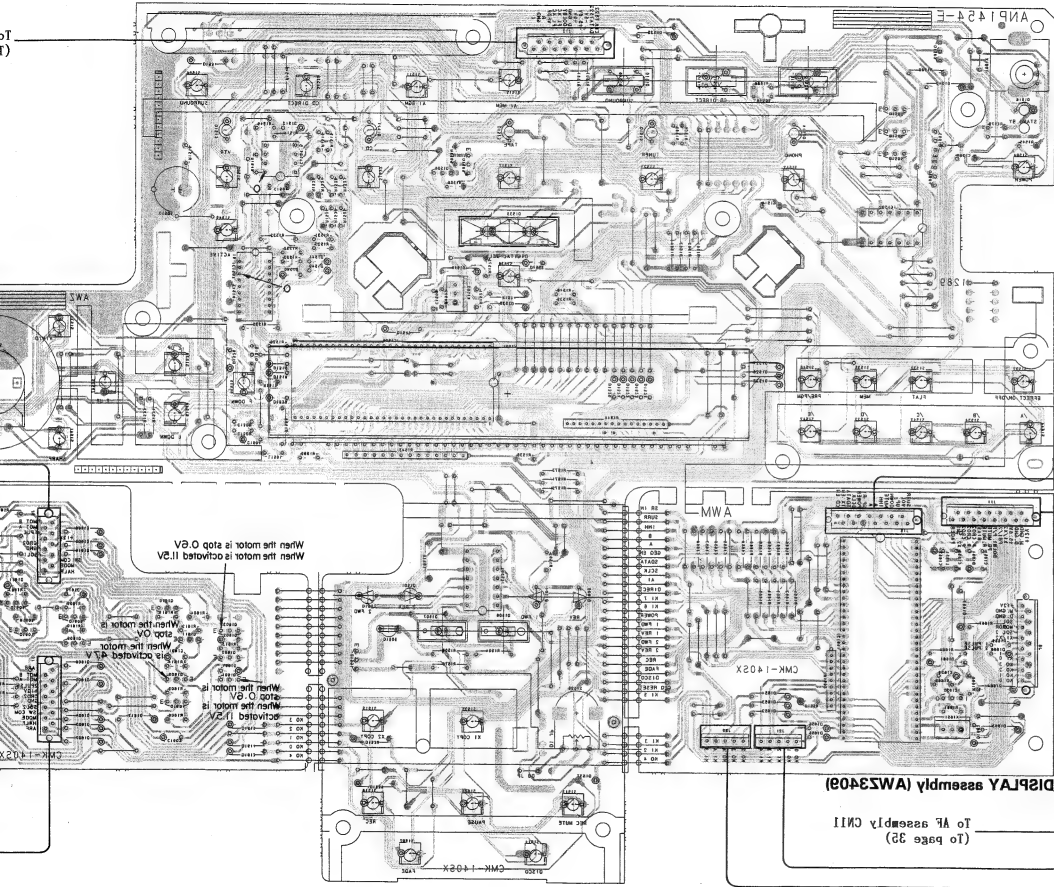
**2 MECHA SW assembly**

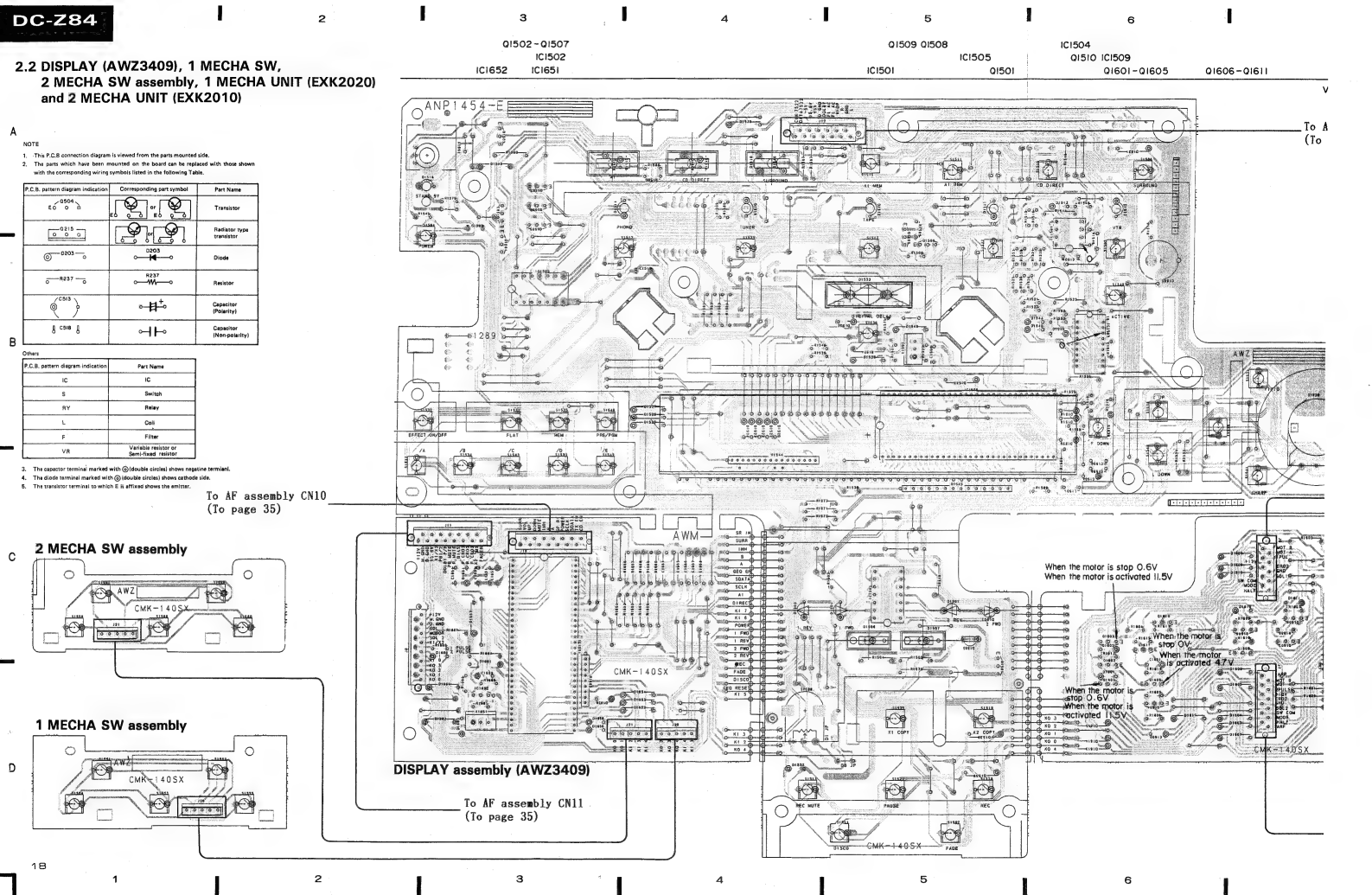


1 MECHA 2W assembly



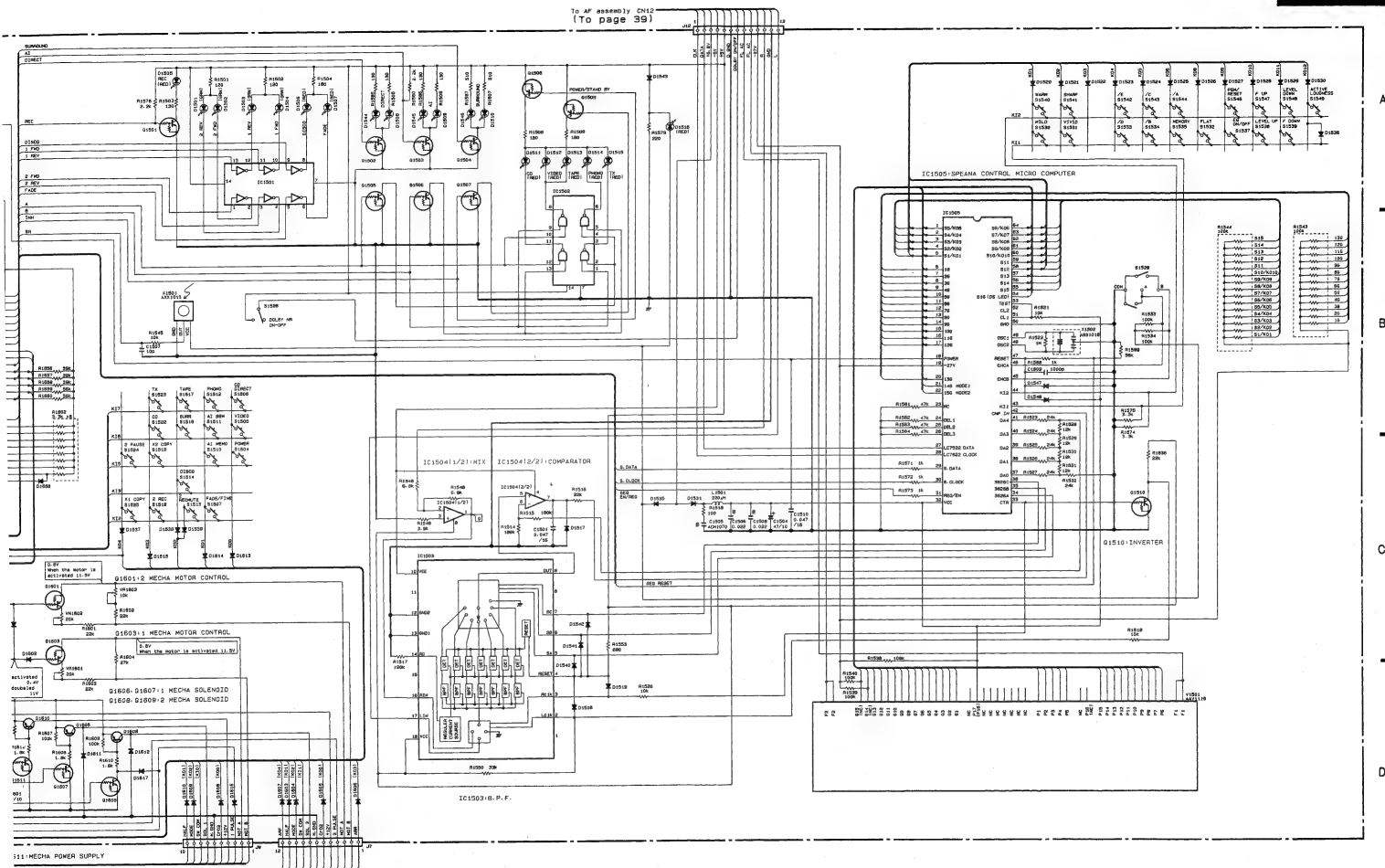
(To page 35)  
To AF assembly CMI

[illegible]



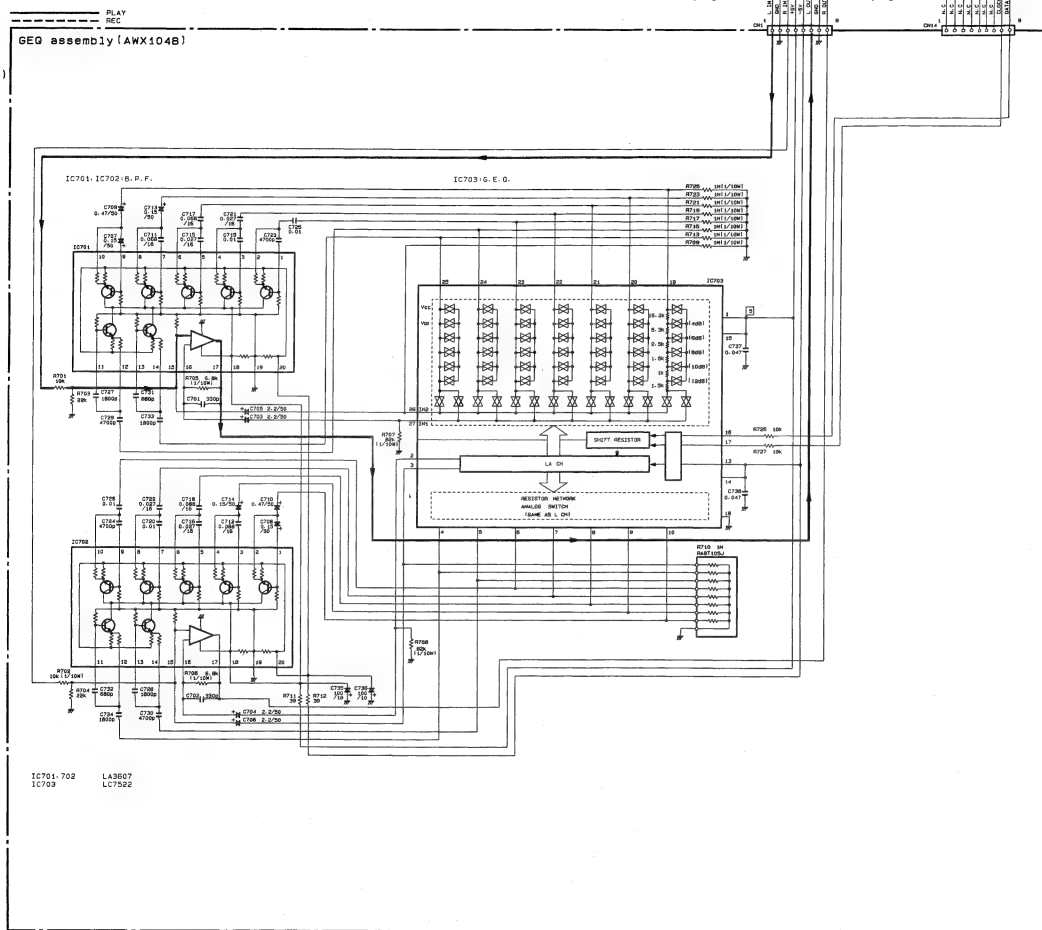




To AF assembly Ch12  
(To page 39)



To AF assembly  
CN4  
(To page 37)



To AF assembly —  
CN1  
(To page 37)

To AF assembly —  
CN14  
(To page 38)

IC701-702	LA3607
IC703	LC7522



## NOTE

1. The P.C.B. connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be repeated with those shown with the corresponding wiring symbols listed in the following Table.

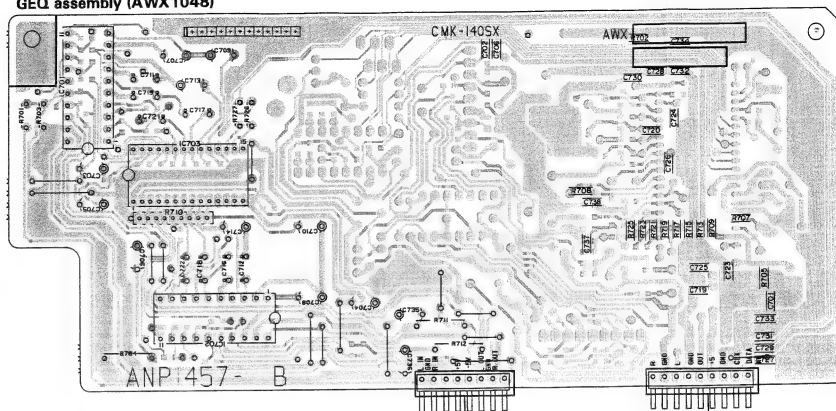
P.C.B. pattern diagram indication	Corresponding part number	Part Name
	4004 E O B D	Transistor
	0218 O O O	Resistor type transistor
	0203 O	Diode
	0237 O	Resistor
	0203 O	Capacitor (Polarized)
	0208 O	Capacitor (Non-polarity)

## Others

P.C.B. pattern diagram indication	Part Name
	IC
	Switch
	Relay
	Coil
	Filter
	Variable reactor or Semi-conductor reactor

3. The capacitor terminal marked with @ (double circle) shows negative terminal.
4. The diode terminal marked with @ (double circle) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

## GEQ assembly (AWX1048)

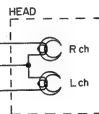
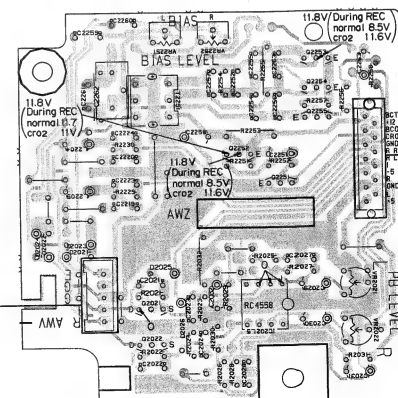
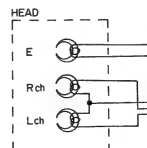


To AF assembly  
(To page 35)

To AF assembly  
(To page 35)

To AF assembly CN4  
(To page 35)

To AF assembly CN5  
(To page 35)

1 MECHA unit  
(EXK2020) (2/2)2 MECHA unit  
(EXK2010) (2/2)

## 2 MECHA assembly

## 1 MECHA assembly

A

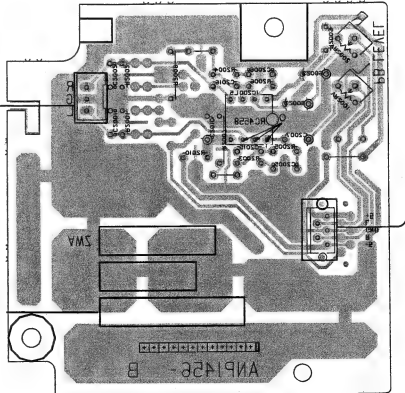
3

C

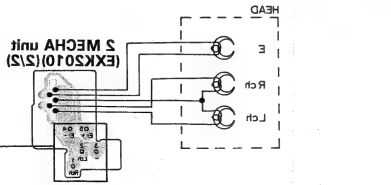
**D**

29

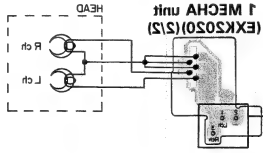
1 MECHA assembly



(To page 32)  
To AF assembly CMT

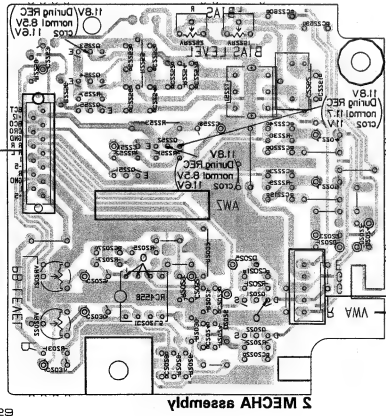


(EXK5010)(2/2)  
2 MECHA unit



(EXK2020)(2/2)

(To page 32)  
To AF assembly

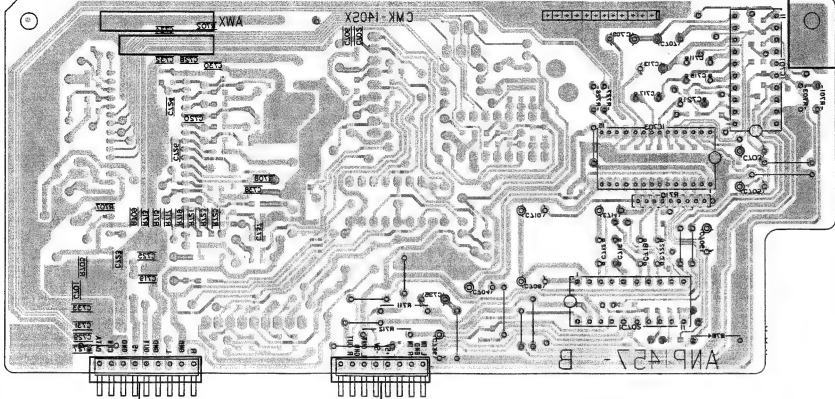


**2 MECHA assembly**

(To page 35)

(To page 32)

GEO assembly (AWX1048)



(138)

(To page 18)

To DISPLAY assembly 111

(To page 27)

To IMCHY assembly 12

(To page 18)

To DISPLAY assembly 110

(To page 28)

To ZMECH assembly 14

(To page 28)

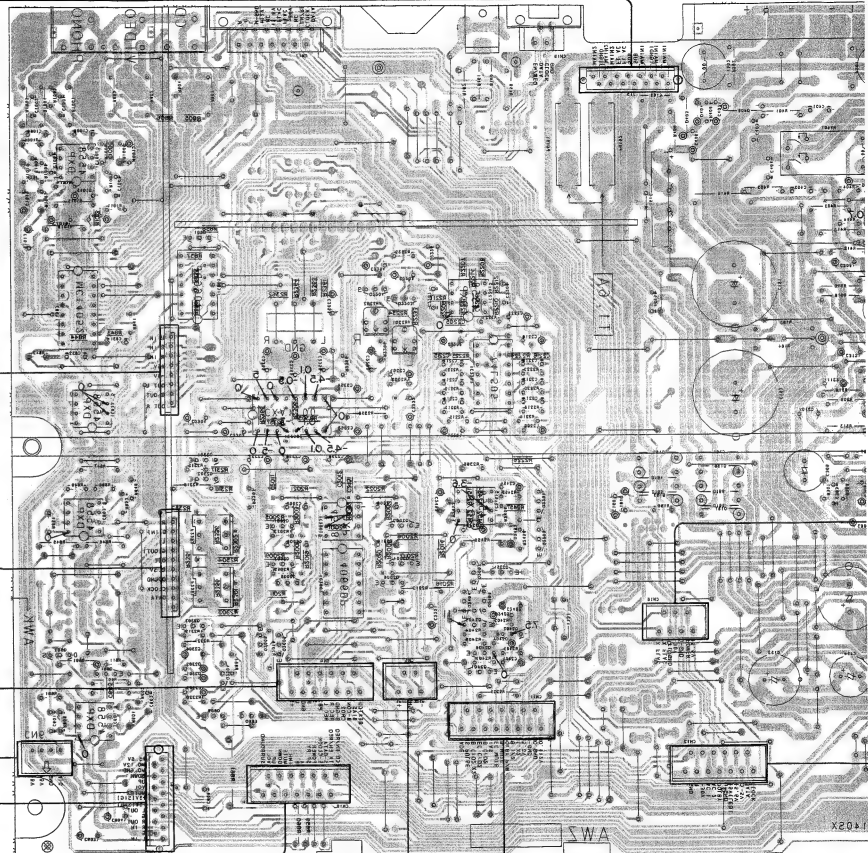
To GND assembly

(To page 28)

To GND assembly

VR assembly

MIC BALANCE assembly



VRSSOI ARSSOI

05401-05408  
05501 05505 05321 IC5421 IC5001 IC5005 05301-05308  
IC5501 IC5505 05502 05504  
IC803 0805  
IC801 0801 0805  
IC1001

IC102

(To page 43)

To TRANS CONNECT assembly 112

VO  
is up 2V  
When the  
remote control  
is down 4.1V

VO  
is up 2V  
When the  
remote control  
is down 4.1V

VO  
is up 2V  
When the  
remote control  
is down 4.1V

VO  
is up 2V  
When the  
remote control  
is down 4.1V

A

B

C

D



2.4 AF (AWZ3338), HEAD PHONE,  
VR and MIC BALANCE assembly

A

- NOTE
1. This P.C.B. connection diagram is viewed from the parts mounted side.
  2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Inductor type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Nonpolarity)

B

Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Fuse
VR	Variable resistor or semi-fixed resistor

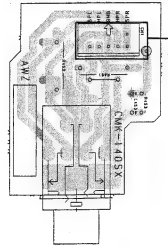
3. The capacitor terminal marked with @ (double circles) shows negative terminal.
4. The diode terminal marked with @ (double circles) shows outside side.
5. The transistor terminal to which E is affixed shows the emitter.

C

To SUB TRANS assembly CN16  
(To page 43)

To DISPLAY assembly J12  
(To page 19)

HEAD PHONE assembly



D

AF assembly (AWZ3338)

To DISPLAY assembly J11  
(To page 18)

To IMECHA assembly J5  
(To page 27)

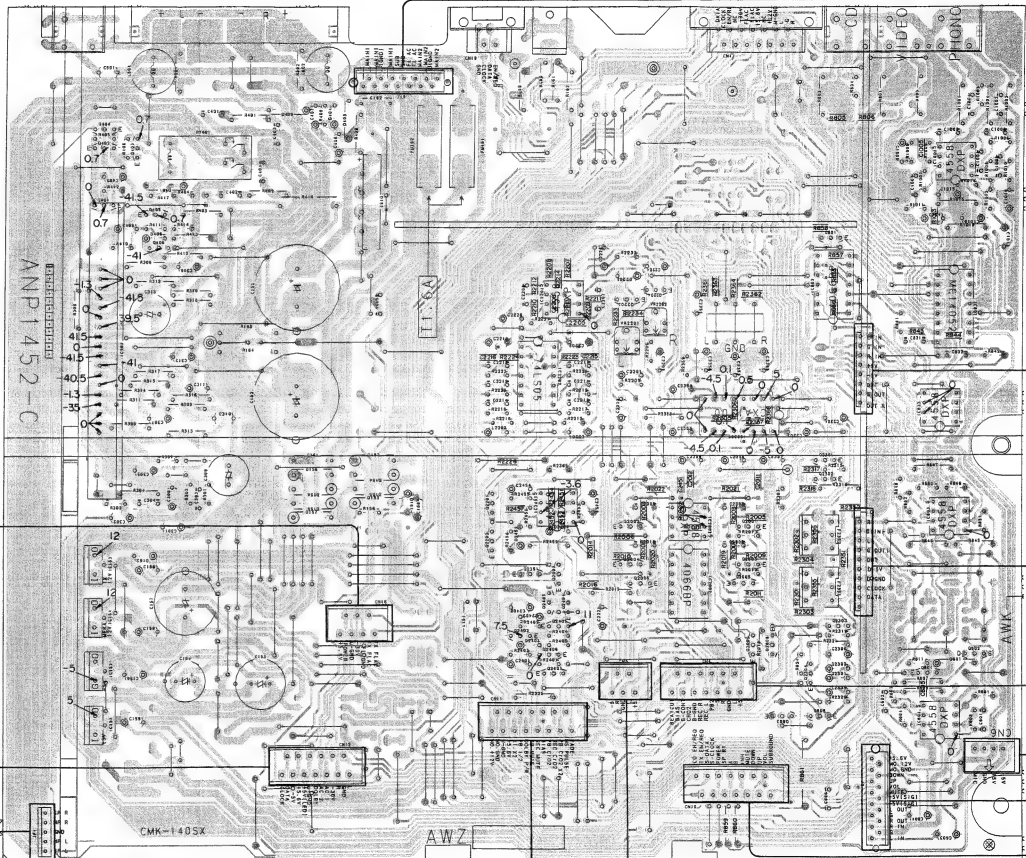
Q401-Q406  
IC301  
IC153 IC154  
IC152 IC151

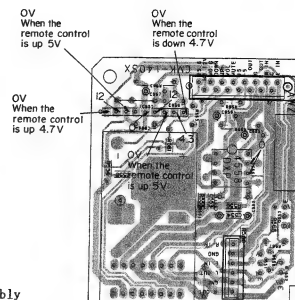
IC155

IC2201 IC2202 Q2203 Q2204  
Q2201 Q2202 Q2351 IC2451 IC2001 IC2002 Q2001-Q2009 Q2301-Q2304  
Q2401-Q2406 Q803 Q802

IC1001  
IC833 IC801  
IC803  
IC601 Q601 Q602

VR2201 VR2202



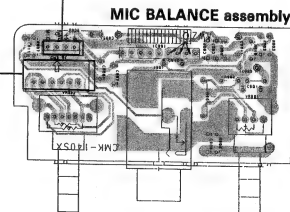


VR assembly

To GEQ assembly  
(To page 28)

To GEQ assembly  
(To page 28)

- To 2MECHA assembly J4  
(To page 28)



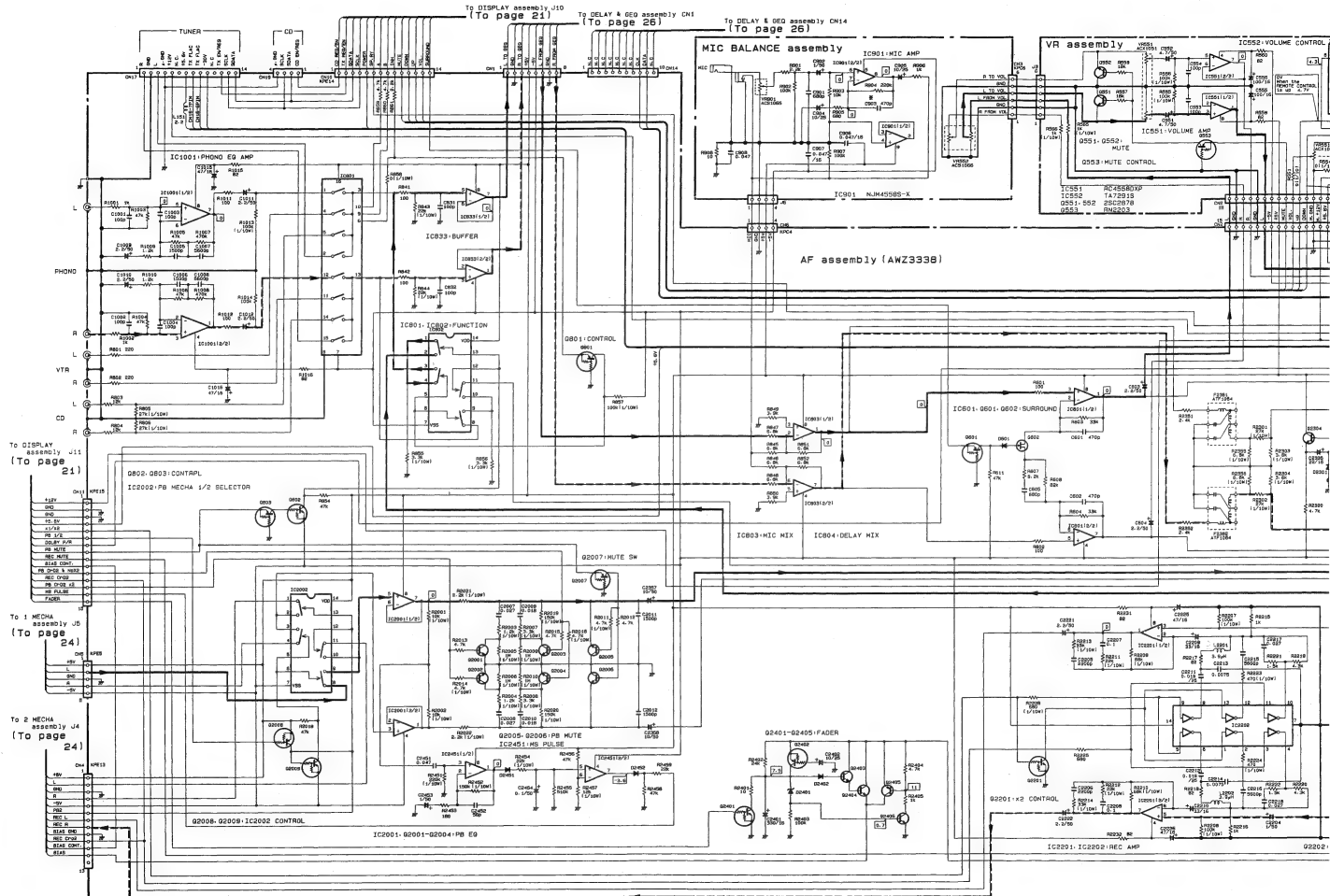
### MIC BALANCE assembly

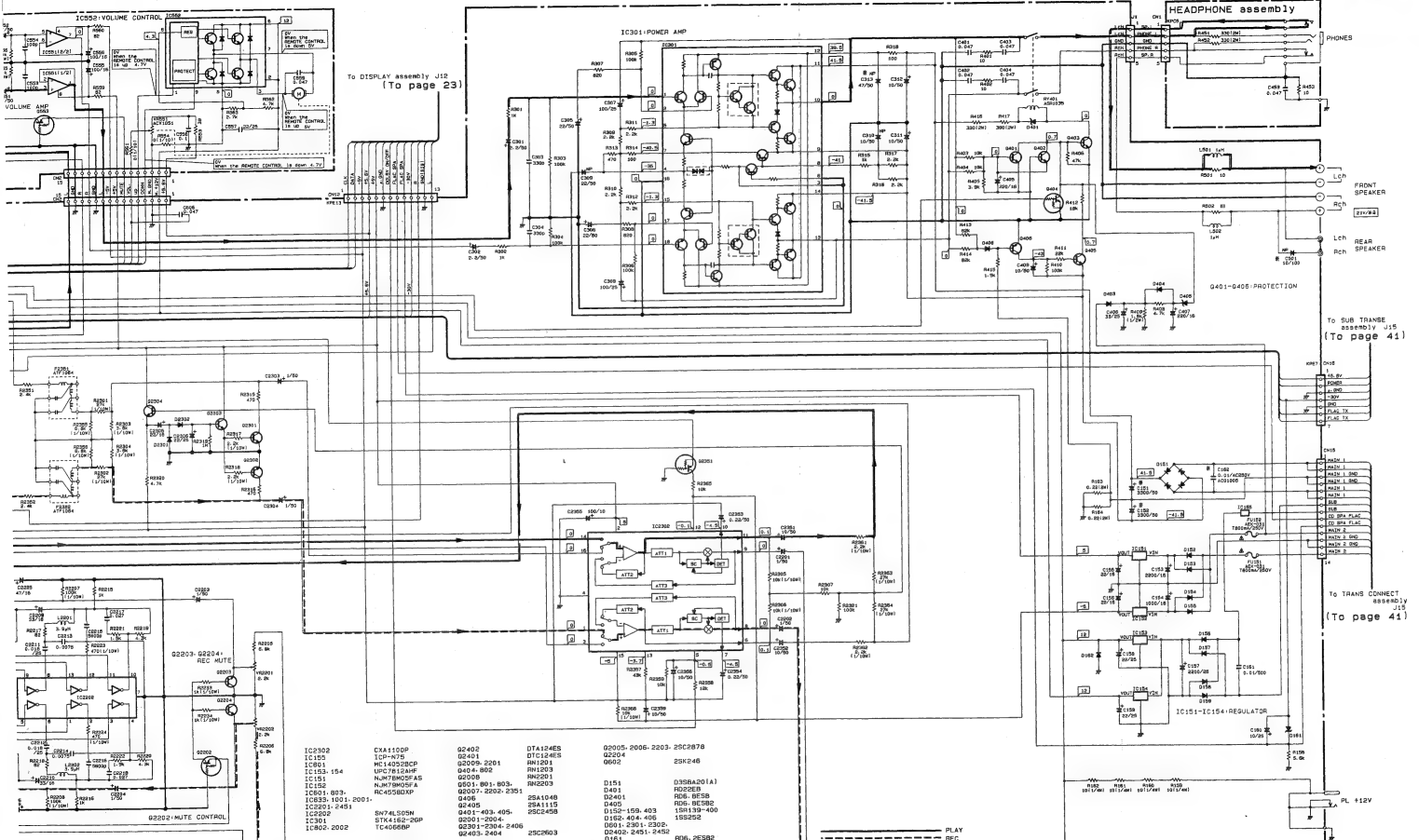
To 1MECHA assembly J5  
(To page 27)

To DISPLAY assembly J11  
(To page 18)

To DISPLAY assembly J10  
(To page 18)







IC302 CKA10DP  
IC105 1C0-H78  
IC801 MC14052DCP  
IC151-154 UPTC154MF  
IC151 NJM7805FAS  
IC152 NJM7805FAS  
IC801 803  
IC203 1001-2001  
IC202 1-2451  
IC202 ST4152-RDP  
IC301-2304-2406 TC4558P  
IC403-2404 25C863

IC402 DT4124ES  
IC401 DT154851  
Q2009-2201 NM201  
Q401-801 NM203  
Q2007-2202-2301 80405  
Q401-803-405 25A110  
Q2009-2304-2406 25C458  
Q2301-2301-2302 25C863  
Q2403-2404 25C863

Q2005-2006-2203-25C2878  
Q2014 25X248  
Q602 25X248  
D151 0398A201A  
D401 80405  
D152-159-403 15H139-400  
D150-404-405 15S252  
D601-2301-2302 15S252  
D2403-2403-2403 15S252  
D161 15S252

Q2005-2006-2203-25C2878  
Q2014 25X248  
Q602 25X248  
D151 0398A201A  
D401 80405  
D152-159-403 15H139-400  
D150-404-405 15S252  
D601-2301-2302 15S252  
D2403-2403-2403 15S252  
D161 15S252

Q2005-2006-2203-25C2878  
Q2014 25X248  
Q602 25X248  
D151 0398A201A  
D401 80405  
D152-159-403 15H139-400  
D150-404-405 15S252  
D601-2301-2302 15S252  
D2403-2403-2403 15S252  
D161 15S252

Q2005-2006-2203-25C2878  
Q2014 25X248  
Q602 25X248  
D151 0398A201A  
D401 80405  
D152-159-403 15H139-400  
D150-404-405 15S252  
D601-2301-2302 15S252  
D2403-2403-2403 15S252  
D161 15S252

Q2005-2006-2203-25C2878  
Q2014 25X248  
Q602 25X248  
D151 0398A201A  
D401 80405  
D152-159-403 15H139-400  
D150-404-405 15S252  
D601-2301-2302 15S252  
D2403-2403-2403 15S252  
D161 15S252













Q2005-2006-2203-25C2878  
Q2014 25X248  
Q602 25X248  
D151 0398A201A  
D401 80405  
D152-159-403 15H139-400  
D150-404-405 15S252  
D601-2301-2302 15S252  
D2403-2403-2403 15S252  
D161 15S252



To AF assembly \_\_\_\_\_  
CN15  
(To page 40)

**NOTE**

1. This P.C.B. connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

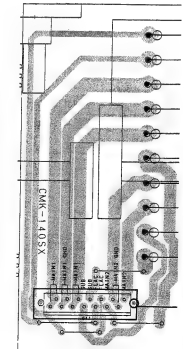
Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Control Speed potentiometer

3. The capacitor terminal marked with  $\oplus$  (double circles) shows negative terminal.
4. The diode terminal marked with  $\oplus$  (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

 VOLTAGE  
SELECTOR  
S101

**TRANS CONNECT asse**



# SUB TRANS assembly (AWR1058)

ANP1455-B

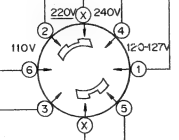
VOLTAGE  
SELECTOR  
S101

To AF assembly CN16  
(To page 35)

To AF assembly CN18  
(To page 35)

AC POWER CORD  
AC 110V/120-127V/  
220V/240V  
50/60Hz

VOLTAGE  
SELECTOR  
S102



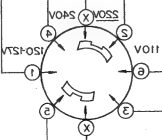
# SUB TRANS assembly (AWR1058)

B-25419A

VOLTAGE  
SELECTOR  
S101

AC POWER CORD  
AC 110V/120-127V/  
220V/240V  
50/60Hz

VOLTAGE  
SELECTOR  
S102



# TRANS CONNECT assembly

T2001  
POWER TRANSFORMER

To AF assembly CN15  
(To page 35)

To AF assembly CN12  
(To page 35)

A

B

C

D

### 3. P.C.B 's PARTS LIST

#### NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560 $\Omega$	56 $\times 10^1$	561.....	RD14PS $\square \square \square J$
47k $\Omega$	47 $\times 10^3$	473.....	RD14PS $\square \square \square J$
0.5 $\Omega$	0R5.....		RN2H $\square \square \square K$
1 $\Omega$	010.....		RS1P $\square \square \square K$

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k $\Omega$	562 $\times 10^1$	5621.....	RN14SR $\square \square \square \square F$
----------------	-------------------	-----------	--

Mark No.	Description	Parts No.	Mark No.	Description	Parts No.
<b>© AF assembly (AWZ3338)</b>					
<b>SEMICONDUCTORS</b>					
IC1001	OP-AMP IC	RC4558DXP	Q404	TRANSISTOR	RN1203
IC151	REGULATOR IC	NJM78M05FAS	Q405	TRANSISTOR	2SC2458
IC152	REGULATOR IC	NJM79M05FA	Q406	TRANSISTOR	2SA1048
IC153, 154	REGULATOR IC	UPC7812AHF	Q601	TRANSISTOR	RN2203
IC155	IC PROTECTOR	ICP-N75	Q602	N-FET	2SK246
IC2001	OP-AMP IC	RC4558DXP	Q801	TRANSISTOR	RN2203
IC2002	LOGIC IC	TC4066BP	Q802	TRANSISTOR	RN1203
IC2301	OP-AMP IC	RC4558DXP	Q803	TRANSISTOR	RN2203
IC2302	LOGIC IC	SN74LS05N	D151	DIODE	D3SBA20 (A)
IC2302	DOLBY-B IC	CXA1100P	D152-159	DIODE	1SR139-400
IC2451	OP-AMP IC	RC4558DXP	D161	ZENER DIODE	RD6.2ESB2
IC301	AUDIO IC	STK4162-2GP	D162	DIODE	1SS252
IC601	OP-AMP IC	RC4558DXP	D2301, 2302	DIODE	1SS252
IC801	LOGIC IC	MC14052BCP	D2401	ZENER DIODE	RD6.8ESB
IC802	LOGIC IC	TC4066BP	D2402	DIODE	1SS252
IC803, 833	OP-AMP IC	RC4558DXP	D2451, 2452	DIODE	1SS252
Q2001-2204	TRANSISTOR	2SC2458	D401	ZENER DIODE	RD22EB
Q2005, 2006	TRANSISTOR	2SC2876	D403	DIODE	1SR139-400
Q2007	TRANSISTOR	RN2203	D404	DIODE	1SS252
Q2008	TRANSISTOR	RN2201	D405	ZENER DIODE	RD6.8ESB2
Q2009, 2201	TRANSISTOR	RN1201	D406, 601	DIODE	1SS252
Q2202	TRANSISTOR	RN2203	<b>RELAY</b>		
Q2203, 2204	TRANSISTOR	2SC2876	RY401	RELAY	ASR1035
Q2301-2304	TRANSISTOR	2SC2458	<b>COILS</b>		
Q2351	TRANSISTOR	RN2203	F2351, 2352	DOLBY FILTER	ATF1064
Q2401	TRANSISTOR	DTC124ES	L151	AXIAL INDUCTOR	LAU2R2K
Q2402	TRANSISTOR	DTA124ES	L2201, 2202	INDUCTOR	LTA392J
Q2403, 2404	TRANSISTOR	2SC2603	L501, 502	COIL	ATH-133
Q2405	TRANSISTOR	2SA1115	<b>CAPACITORS</b>		
Q2406	TRANSISTOR	2SC2458	C1001-1004	CERAMIC CAPACITOR	CCCSL101J50
Q401-403	TRANSISTOR	2SC2458	C1005	CERAMIC CAPACITOR	CKSQYB152K50
			C1006	CERAMIC CAPACITOR	CKDYB152K50
			C1007, 1008	CERAMIC CAPACITOR	CKDYB562K50

Mark No.	Description	Parts No.
C1009-1012	ELECTR.CAPACITOR	CEAS2R2M50
C1015, 1016	ELECTR.CAPACITOR	CEAS470M16
C151, 152	ELECTROLYTIC CAPACIT (3300/50)	ACH1017
C153	ELECTR.CAPACITOR	CEAS222M16
C154	ELECTR.CAPACITOR	CEAS102M16
C155, 156	ELECTR.CAPACITOR	CEAS220M16
C157	ELECTR.CAPACITOR	CEAS222M25
C158, 159	ELECTR.CAPACITOR	CEAS220M25
C160	ELECTR.CAPACITOR	CEAS100M25
C161	CERAMIC CAPACITOR	CKDYB103K500
C162	CKA (0.01/AC250V)	ACG1005
C2007, 2008	MYLOR FILM CAPACITOR	CQMA273J50
C2009, 2010	MYLOR FILM CAPACITOR	CQMA183J50
C2011, 2012	CERAMIC CAPACITOR	CKSQYB152K50
C2201-2204	ELECTR.CAPACITOR	CEAS010M50
C2205, 2206	CHIP CAPACITOR	CKSQYB222K50
C2207, 2208	AUDIO FILM CAPACITOR	CFTXA104J50
C2209, 2210	ELECTR.CAPACITOR	CEAS330M16
C2211, 2212	CERAMIC CAPACITOR	CKCXY183M25
C2213, 2214	MYLOR FILM CAPACITOR	CQMA475J50
C2215, 2216	CERAMIC CAPACITOR	CKSQYB562K50
C2217, 2218	MYLOR FILM CAPACITOR	CQMA273J50
C2221, 2222	ELECTR.CAPACITOR	CEAS2R2M50
C2225, 2226	ELECTR.CAPACITOR	CEAS470M16
C2303, 2304	ELECTR.CAPACITOR	CEAS010M50
C2305	ELECTR.CAPACITOR	CEAS220M16
C2306	ELECTR.CAPACITOR	CEAS220M25
C2351, 2352	ELECTR.CAPACITOR	CEAS100M50
C2353, 2354	ELECTR.CAPACITOR	CEASR22M50
C2355	ELECTR.CAPACITOR	CEAS101M10
C2356-2359	ELECTR.CAPACITOR	CEAS100M50
C2401	ELECTR.CAPACITOR	CEAS331M16
C2402	ELECTR.CAPACITOR	CEAS100M25
C2451	CERAMIC CAPACITOR	CKSQYB473K50
C2452	CERAMIC CAPACITOR	CSQCH560J50
C2453	ELECTR.CAPACITOR	CEAS010M50
C2454	ELECTR.CAPACITOR	CEAS0R1M50
C301, 302	ELECTR.CAPACITOR	CEAS2R2M50
C303, 304	CERAMIC CAPACITOR	CKMYB331K50
C305, 306	ELECTR.CAPACITOR	CEAS220M50
C307, 308	ELECTR.CAPACITOR	CEAS101M25
C309	ELECTR.CAPACITOR	CRANP220M50
C310	ELECTR.CAPACITOR	CRANP100M50
C311, 312	ELECTR.CAPACITOR	CEAS100M50
C313	ELECTROLYTIC CAPACIT (47/50)	ACH1143
C401-404	CERAMIC CAPACITOR	CKCYF473Z50

Mark No.	Description	Parts No.
C405	ELECTR.CAPACITOR	CEAS221M16
C406	ELECTR.CAPACITOR	CEAS330M25
C407	ELECTR.CAPACITOR	CEAS221M16
C408	ELECTR.CAPACITOR	CEAS100M50
C501	ELECTR.CAPACITOR (10/100)	ACH1144
C601, 602	CERAMIC CAPACITOR	CKMYB471K50
C603, 604	ELECTR.CAPACITOR	CEAS2R2M50
C605	CERAMIC CAPACITOR	CKSQYB681K50
C606	CERAMIC CAPACITOR	CKCYF473Z50
C631, 832	CERAMIC CAPACITOR	CCCSL101J50

## RESISTORS

VR2201, 2202	VR	VRTB6VS222
R1013	CHIP RESISTOR	RS1/10S104J
R159-162	CARBON FILM RESISTOR	RD1/4PM100J
R163, 164	METAL OXIDE RESISTOR	RS2LMFR22J
R2001, 2002	CHIP RESISTOR	RS1/10S103J
R2003, 2004	CHIP RESISTOR	RS1/10S122J
R2005, 2006	CHIP RESISTOR	RS1/10S105J
R2007, 2008	CHIP RESISTOR	RS1/10S332J
R2009, 2010	CHIP RESISTOR	RS1/10S105J
R2011, 2014	CHIP RESISTOR	RS1/10S472J
R2016	CHIP RESISTOR	RS1/10S472J
R2019, 2020	CHIP RESISTOR	RS1/10S154J
R2021, 2022	CHIP RESISTOR	RS1/10S222J
R2207, 2208	CHIP RESISTOR	RS1/10S104J
R2209, 2210	CHIP RESISTOR	RS1/10S683J
R2211, 2212	CHIP RESISTOR	RS1/10S223J
R2213, 2214	CHIP RESISTOR	RS1/10S333J
R2223, 2224	CHIP RESISTOR	RS1/10S471J
R2226	CHIP RESISTOR	RS1/10S681J
R2233, 2234	CHIP RESISTOR	RS1/10S102J
R2301, 2302	CHIP RESISTOR	RS1/10S273J
R2303, 2304	CHIP RESISTOR	RS1/10S362J
R2305, 2306	CHIP RESISTOR	RS1/10S103J
R2317, 2318	CHIP RESISTOR	RS1/10S222J
R2351, 2352	CHIP RESISTOR	RS1/10S242J
R2355, 2356	CHIP RESISTOR	RS1/10S682J
R2357	CHIP RESISTOR	RS1/10S433J
R2361, 2362	CHIP RESISTOR	RS1/10S222J
R2363, 2364	CHIP RESISTOR	RS1/10S273J
R2366	CHIP RESISTOR	RS1/10S103J
R2451	CHIP RESISTOR	RS1/10S224J
R2452	CHIP RESISTOR	RS1/10S154J
R2454	CHIP RESISTOR	RS1/10S223J
R2457	CHIP RESISTOR	RS1/10S123J
R305, 306	CARBON FILM RESISTOR	RD1/4PM104J

Mark No.	Description	Parts No.
R309-312	CARBON FILM RESISTOR	RD1/4PM222J
R313	CARBON FILM RESISTOR	RD1/4PMFL471J
R314	CARBON FILM RESISTOR	RD1/4PMFL101J
R315	CARBON FILM RESISTOR	RD1/4PM102J
R316, 317	CARBON FILM RESISTOR	RD1/4PMFL222J
R318	CARBON FILM RESISTOR	RD1/4PMFL101J
R401, 402	CARBON FILM RESISTOR	RD1/4PM100J
R409	CARBON FILM RESISTOR	RD1/2PM182J
R416	METAL OXIDE RESISTOR	RS2LMF331J
R417	METAL OXIDE RESISTOR	RS2LMF391J
R501, 502	CARBON FILM RESISTOR	RD1/4PMFL100J
R805, 806	CHIP RESISTOR	RS1/10S273J
R843, 844	CHIP RESISTOR	RS1/10S223J
R855, 856	CHIP RESISTOR	RS1/10S332J
R857	CHIP RESISTOR	RS1/10S104J
R858	CHIP RESISTOR	RS1/10S000J
	Other resistors	RD1/8PM□□□□
<b>OTHERS</b>		
CN10	CONNECTOR (14P)	KPE14
CN11	CONNECTOR (15P)	KPE15
CN12	CONNECTOR (13P)	KPE13
CN16	CONNECTOR (7P)	KPE7
CN4	CONNECTOR (13P)	KPE13
CN5	CONNECTOR (5P)	KPE5
CN6	CONNECTOR (4P)	KPC4
	PIN JACK (6P)	AKB1121
	PIN JACK (2P)	AKB1146
	SPEAKER TERMINAL 4-P	AKE-109
	JACK	AKN-203
	SOCKET (14P)	AKP1048
	SOCKET (4P)	AKP1046
	GEQ assembly	AWX1048

Mark No.	Description	Parts No.
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### © GEQ assembly (AWX1048)

The GEQ assembly (AWX1048) is a part of AF assembly (AWZ3338).

### SEMICONDUCTORS

IC701, 702	GEQ IC	LA3607
IC703	GEQ EVR IC	LC7522

### CAPACITORS

C701, 702	CERAMIC CAPACITOR	CCSQSL331J50
C703-706	ELECTR. CAPACITOR	CEAS2R2M50
C707, 708	ELECTROLYTIC CAPACIT	CEASR15M50
C709, 710	ELECTR. CAPACITOR	CEASR47M50
C711, 712	CERAMIC CAPACITOR	CKCYX683M16
C713, 714	ELECTROLYTIC CAPACIT	CEASR15M50
C715, 716	CERAMIC CAPACITOR	CKCYX273M16
C717, 718	CERAMIC CAPACITOR	CKCYX683M16
C719, 720	CERAMIC CAPACITOR	CKSQYB103K50
C721, 722	CERAMIC CAPACITOR	CKCYX273M16
C723, 724	CERAMIC CAPACITOR	CKSQYB472K50
C725, 726	CERAMIC CAPACITOR	CKSQYB103K50
C727, 728	CERAMIC CAPACITOR	CKSQYB182K50
C729, 730	CERAMIC CAPACITOR	CKSQYB472K50
C731, 732	CERAMIC CAPACITOR	CKSQYB681K50
C733, 734	CERAMIC CAPACITOR	CKSQYB182K50
C735, 736	ELECTR. CAPACITOR	CEAS101M10
C737, 738	CERAMIC CAPACITOR	CKSQYB473K50

### RESISTORS

R701	CARBONFILM RESISTOR	RD1/8PM103J
R703, 704	CARBONFILM RESISTOR	RD1/8PM222J
R710	RESISTOR ARRAY (1M)	RA8T105J
R711, 712	CARBON FILM RESISTOR	RD1/4PM390J
R726, 727	CARBONFILM RESISTOR	RD1/8PM103J
	Other resistors	RS1/10S□□□□

### VR assembly

### SEMICONDUCTORS

IC551	OP-AMP IC	RC4558DXP
IC552	MECHANISM DRIVER IC	TA72915
Q551, 552	TRANSISTOR	ZSC2878
Q553	TRANSISTOR	RN2203

Mark No.	Description	Parts No.
<b>CAPACITORS</b>		
C551, 552	ELECTR.CAPACITOR	CEAS4R7M50
C553, 554	CHIP CAPACITOR	CCSQCH101J50
C555, 556	ELECTR.CAPACITOR	CEAS101M16
C557	ELECTR.CAPACITOR	CEAS220M25
C558	CERAMIC CAPACITOR	CKSQYF104Z50

C559	CERAMIC CAPACITOR	KCYF473Z50
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<b>RESISTORS</b>		
VR551	VARIABLE RESISTOR	ACX1051
R554	CHIP RESISTOR	RS1/10S000J
R555, 556	CHIP RESISTOR	RS1/10S104J
R561	CHIP RESISTOR	RS1/10S000J
R565, 566	CHIP RESISTOR	RS1/10S102J
	Other resistors	RD1/8PM□□□□

**HEAD PHONE assembly**

<b>CAPACITOR</b>		
C453	CERAMIC CAPACITOR	CKDYF473Z50

<b>RESISTORS</b>		
R451, 452	METAL OXIDE RESISTOR	RS2LMF331J
R453	CARBONFILM RESISTOR	RD1/8PM100J

<b>OTHERS</b>		
CN1	JACK (HEAD PHONE) CONNECTOR (5P)	AKN1010 KPC5

**TRANS CONNECT assembly**

No parts are supplied with the TRANS CONNECT assembly.

**© DISPLAY assembly (AWZ3351)**

<b>SEMICONDUCTORS</b>		
IC1501	LOGIC IC	SN74LS05N
IC1502	LOGIC IC	SN74LS03N
IC1503	GEQ-BPF IC	BA3826S
IC1504	OP-AMP IC	RC4558DXP
IC1505	SPECTRUM ANALYZER CONTROL $\mu$ -COM	PD3174A
IC1551	SYSTEM CONTROL $\mu$ -COM	PD5147B
IC1652	RESET IC	M51951BSL

Q1501-1504	TRANSISTOR	RN1201
Q1505-1507	TRANSISTOR	RN1203
Q1508, 1509	TRANSISTOR	RN2201
Q1510	TRANSISTOR	RN1203
Q1601	TRANSISTOR	RN2204
Q1602	TRANSISTOR	RN1203
Q1603	TRANSISTOR	RN2204
Q1604	TRANSISTOR	2SA1515
Q1605	TRANSISTOR	RN1203
Q1606	TRANSISTOR	2SA1515
Q1607	TRANSISTOR	RN1203
Q1608	TRANSISTOR	2SA1515
Q1609	TRANSISTOR	RN1203
Q1610	TRANSISTOR	2SA1515
Q1611	TRANSISTOR	RN1203

D1501-1504	LED (GREEN)	AEL1130
D1505	LED (RED)	AEL1119
D1506, 1507	LED (RED)	AEL1126
D1508, 1509	LED	AEL1128
D1510	LED (RED)	AEL1065

D1511-1516	LED (RED)	AEL1108
D1517-1531	DIODE	1SS252
D1535-1543	DIODE	1SS252
D1544, 1545	LED (GREEN)	AEL1129
D1546	LED (RED)	AEL1065

D1547, 1548	DIODE	1SS252
D1601-1617	DIODE	1SS252
D1651-1658	DIODE	1SS252
D1660-1664	DIODE	1SS252

**SWITCHES**

S1504-1507	SWITCH	ASG1034
S1510-1514	SWITCH	ASG1034
S1516-1519	SWITCH	ASG1034
S1522-1525	SWITCH	ASG1034
S1528	SWITCH	ASD1012

S1529	ROTARY ENCODER	ASX1009
S1530-1535	SWITCH	ASG1034
S1537-1544	SWITCH	ASG1034
S1546-1549	SWITCH	ASG1034

**COILS**

L1501	AXIAL INDUCTOR	LAU221K
L1651	AXIAL INDUCTOR	LAU220K

**CAPACITORS**

C1501	CERAMIC CAPACITOR	CKDYX473M16
C1504	ELECTR.CAPACITOR	CEJA470M10
C1505	CEA (47000/5.5V)	ACH1070
C1506	CERAMIC CAPACITOR (0.022)	ACG1022
C1507	CERAMIC CAPACITOR	CCDSL100D50

Mark No.	Description	Parts No.
C1508	CERAMIC CAPACITOR	ACG1022
C1509	CERAMIC CAPACITOR	CKMYB102K50
C1510	CERAMIC CAPACITOR	CKDYX473M16
C1601	ELECTR.CAPACITOR	CEAS470M10
C1602	ELECTR.CAPACITOR	CEASR33M50
C1651	CERAMIC CAPACITOR	CKCYF473Z50
C1652	ELECTR.CAPACITOR	CEAS101M16
C1653	CERAMIC CAPACITOR	CKCYF473Z50
C1654-1658	CERAMIC CAPACITOR (1000p)	ACG1020
C1659	ELECTR.CAPACITOR	CEAS010M50

## RESISTORS

VR1601, 1602	VR	VRTM6V203
VR1603	VR	VRTM6V103
R1543	RESISTOR ARRAY (100k)	RA13S104J
R1544	RESISTOR ARRAY (100k)	RA15T104J
R1662	RESISTOR ARRAY (3.3K)	RA8T332J
Other resistors		RD1/8PM□□□□

## OTHERS

V1501	FL TUBE	AAV1116
X1502	CERAMIC RESONATOR	ASS1018
X1651	CERAMIC RESONATOR	ASS1025
	REMOTE RECEIVER UNIT	AXX1010
CN8	CONNECTOR (15P)	KPE15

1 MECHA SW assembly  
SWITCHES

S1551-1555	SWITCH	ASG1034
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2 MECHA SW assembly  
SWITCHES

S1556-1560	SWITCH	ASG1034
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MIC BALANCE assembly  
SEMICONDUCTORS

IC901	OP-AMP IC	NJM4558S-X
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Mark No.	Description	Parts No.
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## CAPACITORS

C901	CERAMIC CAPACITOR	CKMYB681K50
C902	ELECTR.CAPACITOR	CEAS010M50
C903	CERAMIC CAPACITOR	CKMYB471K50
C904, 905	ELECTR.CAPACITOR	CEAS100M25
C906, 907	CERAMIC CAPACITOR	CKDYX473M16

C908	CERAMIC CAPACITOR	CKDYF473Z50
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## RESISTORS

VR552	VARIABLE RESISTOR	ACS1066
VR901	VARIABLE (10K-X1)	ACS1065

Other resistors		RD1/8PM□□□□
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## OTHERS

CN3	JUMPER CONNECTOR	KPC6
	JACK (MIC)	AKN1017

## ◎ SUB TRANS assembly (AWR105B)

## SEMICONDUCTORS

IC101	REGULATOR IC	NJM78M56FAS
IC102	REGULATOR IC	UPC78M12AHF
Q101	TRANSISTOR	2SC2458
Q102	TRANSISTOR	2SB560
D101	ZENER DIODE	RD10ESB2
D102	ZENER DIODE	RD30ESB2
D103-106	DIODE	1SR139-400
D107, 109	DIODE	1SS252

## RELAY

RY101	RELAY	ASR1027
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## TRANSFORMER

△ T101	POWER TRANSFORMER	ATT1144
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## CAPACITORS

C101	ELECTR.CAPACITOR	CEAS222M25
C102	ELECTR.CAPACITOR	CEAS221M50
C103, 104	ELECTR.CAPACITOR	CEAS470M16
C105	ELECTR.CAPACITOR	CEAS470M50
C106	ELECTR.CAPACITOR	CEAS220M50
C107	ELECTR.CAPACITOR	CEAS470M16

## RESISTORS

RI01	CARBON FILM RESISTOR	RD1/4PMF392J
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Other resistors		RD1/8PM□□□□
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## OTHERS

AC socket (OUTLET 1P)		AKP1078
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Mark No.	Description	Parts No.
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**1 MECHA assembly****CAPACITORS**

C2001, 2002	CERAMIC CAPACITOR	CKMYB391K50
C2005, 2006	AUDIO FILM CAPACITOR	CFTXA223J50
C2007, 2008	ELECTR.CAPACITOR	CEAS4R7M50
C2009, 2010	ELECTR.CAPACITOR	CEAS470M10

**RESISTORS**

VR2001, 2002	VR	VRTM6H202
	Other resistors	RD1/8PM□□□□

**2 MECHA assembly****SEMICONDUCTORS**

IC2001, 2021	OP-AMP IC	RC4558DXP
Q2021, 2022	N-FET	2SK373
Q2251	TRANSISTOR	RN1201
Q2252	TRANSISTOR	2SA1515
Q2253, 2254	TRANSISTOR	2SC3377
Q2255	TRANSISTOR	2SC2458
D2021-2026	DIODE	1SS252

**COILS & TRANSFORMERS**

L2204, 2205	INDUCTOR	LTA822J
T2251	OSC TRANSFORMER	ATX-043

**CAPACITORS**

C2021, 2022	CERAMIC CAPACITOR	CCMSL100D50
C2023, 2024	CERAMIC CAPACITOR	CKMYB391K50
C2027, 2028	AUDIO FILM CAPACITOR	CFTXA223J50
C2029, 2030	ELECTR.CAPACITOR	CEAS4R7M50
C2031, 2032	ELECTR.CAPACITOR	CEAS470M10
C2219, 2220	CERAMIC CAPACITOR	CCDSL271K500
C2223, 2224	CERAMIC CAPACITOR	CKDYB681K50
C2251	ELECTR.CAPACITOR	CEAS470M16
C2252, 2253	CERAMIC CAPACITOR	CGMYX103M16
C2254	CERAMIC CAPACITOR	CKMYB221K50
C2255	MYLOR FILM CAPACITOR	CQMA153K50
C2256	CERAMIC CAPACITOR	CKMYB681K50
C2257	MYLOR FILM CAPACITOR	CQMA123K250
C2258	ELECTR.CAPACITOR	CEAS4R7M50
C2259, 2260	CERAMIC CAPACITOR	CCCSL101K500
C2261	MYLOR FILM CAPACITOR	CQMA562K400
C2262	CQPA (2000P/630V)	ACE1020
C2263	ELECTR.CAPACITOR	CEAS100M50

Mark No.	Description	Parts No.
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**RESISTORS**

VR2021, 2022	VR	VRTM6V202
VR2251, 2252	VR	VRTM6H204
R2253	CARBON FILM RESISTOR	RD1/2PM360J
	Other resistors	RD1/8PM□□□□











## 4. FOR YPW TYPE

### NOTES:

- Parts without part number cannot be supplied.
- The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.



### 4.1 CONTRAST OF MISCELLANEOUS PARTS

The DC-Z84/YPW type is the same as the DC-Z84/SD type with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		DC-Z84/SD type	DC-Z84/YPW type	
⊙	SUB TRANS assembly	AWR1058	AWR1062	
	S101 Line voltage selector switch	AKX1004	.....	
	S102 Line voltage selector switch	AKX-507	.....	
	T2001 Power transformer	ATS1319	ATS1320	
	FU101 (T4A/250V)	AEK-400	.....	
	FU101 (T2/250V)	.....	AEK-017	
	FU103 (T1.6A/250V)	AEK-405	.....	
	AC Power cord	ADG1051	ADG-043	
	AC socket (OUTLET 1P)	.....	AKP-517	
	Operating instructions (Spanish)	ARC1234	.....	

### 4.2 SUB TRANS assembly (AWR1062)

The SUB TRANS assembly (AWR1062) is the same as the SUB TRANS assembly (AWR1058) with the exception of the following sections.

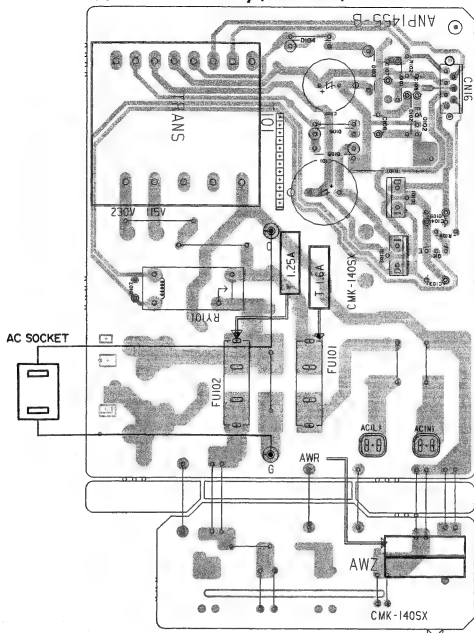
Mark	Symbol & Description	Part No.		Remarks
		AWR1058	AWR1062	
	T101 Power transformer	ATT1144	ATT1149	
	AC socket (OUTLET 1P)	AKP1078	.....	

## A



C

## SUB TRANS assembly (AWR1062)



## NOTE

1. This P.C.B. connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Resistor type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

## Others

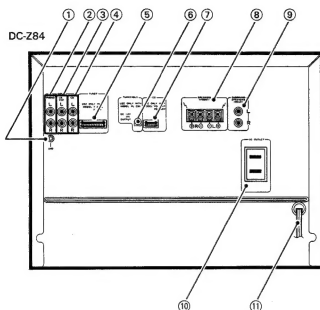
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with @ (double circles) shows negative terminal.
4. The diode terminal marked with @ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



## 5. PANEL FACILITIES

### REAR PANEL FACILITIES



#### ① Ground terminal (GND)

Connect this to the ground terminal on the turntable (except for PL-Z94).

#### ② PHONO input jacks

Connect the audio cord of the turntable to these jacks.

#### ③ LD/VCR jacks

Connect to audio output jacks of LD player or VCR, etc.

#### ④ CD input jacks

Connect to output jacks of a CD player.

#### ⑤ TUNER jacks

Connect the tuner cord here.

#### ⑥ TURNTABLE (DC 12 V OUTPUT) jack

This jack supplies power to the turntable PL-Z94.  
Connect the power supply cord of the turntable to this jack.

#### ⑦ CD jacks

Connect to a compact disc player PD-Z74T or PD-Z84M flat cable.

#### ⑧ SPEAKERS terminals

L: Connect the left speaker system as seen from the listening position.  
R: Connect the right speaker system as seen from the listening position.

#### NOTE:

Connect a speaker system having a nominal impedance ranging from 6  $\Omega$  to 16  $\Omega$ .

#### ⑨ SURROUND SPEAKERS jacks

Connect the surround speaker systems.

#### NOTE:

Connect a speaker system having a nominal impedance of 16  $\Omega$  or more.

#### ⑩ AC OUTLET (SWITCHED 50 W MAX)

Power supplied through this outlet is turned on and off by the cassette deck amplifier's POWER switch. Total electrical power consumption of connected equipment should not exceed 50 W.

#### NOTE:

Do not connect appliances with high power consumption such as heaters, irons, or television sets to the AC OUTLET in order to avoid overheating or fire hazard.

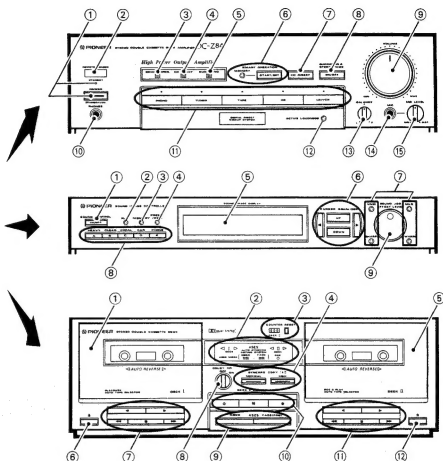
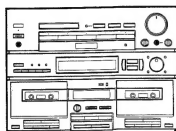
This can cause the cassette deck amplifier to malfunction.

#### ⑪ Power cord

Connect this to the household electrical outlet.

## FRONT PANEL FACILITIES

DC-Z84



- This unit has an automatic tape type selector.
- Tapes can be played back on deck I; tapes can be played back and recorded on deck II.
- Sound can be recorded as adjusted by the sound image controller.
- Use a normal or chrome position tape.

### Amplifier section

- ① POWER STANDBY/ON switch /STANDBY indicator**  
This is the switch for electric power.

**ON:** When set to the ON position, power is supplied and the unit becomes operational.

**STANDBY:** When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

When the STANDBY indicator is on, the unit is in STANDBY.

- ② REMOTE SENSOR window**

- ③ SMART OPER. (OPERATION) indicator**

This lights when smart operation is on.  
It goes out after about 30 seconds.

- ④ CD DIRECT indicator**

This lights when CD DIRECT is on.

- ⑤ SURROUND indicator**

This lights when SURROUND & STEREO WIDE is on.

- ⑥ SMART OPERATION buttons**

**[START/SET]**

Use when programming memory and operating SMART OPERATION.

**[MEMORY]**

Use when programming SMART OPERATION into memory.

- ⑦ CD DIRECT button**

Press this button to listen to a CD without passing the signal through sound quality adjustment circuits.

- ⑧ SURROUND & STEREO WIDE button**

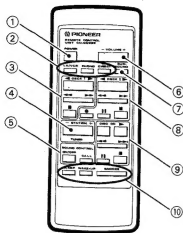
By turning this switch ON, you can enjoy surround reproduction when rear speakers are used.

By turning this switch ON, you can enjoy STEREO WIDE reproduction with greater left-right spread when rear speakers are not used.

### NOTE:

- In the case of monaural source, SURROUND & STEREO WIDE effects cannot be obtained.
- SURROUND & STEREO WIDE functions do not operate if CD DIRECT is on.

## Remote control unit



## ① POWER button

## ② Function buttons

- LD/VCR ..... Sets function to LD/VCR.  
 PHONO ..... Sets function to PHONO.  
 CD DIRECT ..... Sets function to CD DIRECT.

## ③ DECK I operation buttons: Same as Deck I operation buttons on the cassette deck amplifier.

## ④ TUNER STATION button

- Before operation, memorize broadcast stations in the STATION CALL buttons.
- + ..... Stations change in order in the upward direction
- ..... Stations change in order in the downward direction.

## ⑤ SOUND CONTROL operation buttons

- ON/OFF: Turns the sound image controller on and off.  
 CALL: Recalls the preset equalizing curves (PRESET) and memorized sound control (PROGRAM) in sequence.

## ⑥ VOLUME + (UP)/- (DOWN) button

When pressed, VOLUME on the amplifier is actually moved by a motor.

## ⑦ SURROUND button

Turns SURROUND & STEREO WIDE on and off.

## ⑧ Deck II operation button: Same as Deck II operation buttons and DECK II CONTROL buttons on the cassette deck amplifier (except MUTE).

## ⑨ CD operation buttons

Perform the connections so that the CD player is operated by the remote control unit.

- ▶ ..... Play
- DISC ..... DISC selection
- ..... Stop
- II ..... Pause
- ◀▶, ▶▶ ..... Track search

## NOTE:

Note that the DISC selector button on the remote control unit may not operate, depending on the CD player used.

## ⑩ Timer operation buttons

SLEEP: Sets the sleep timer.

WAKE-UP: Timer playback setting/cancellation can be performed when the timer playback time has been set. This is shown in the tuner display section.

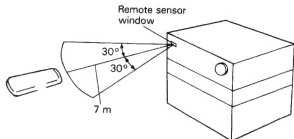
SNOOZE: Turns off power if pressed after timer playback begins. Timer playback begins again approx. 5 minutes later.

The amplifier input selector automatically switches to the music source being operated when you press the CD playback (▶), cassette deck playback (◀, ▶), or tuner station controls.

## NOTE:

It is not possible to operate the CD player with the remote control unless the control card is connected.

## Range of remote control



When the remote control unit is pointed at the remote sensor window on the amplifier section and any of its buttons is pressed, the tuner and other components can be operated by remote control. Distance: Within a range of approx. 7 meters (23 feet) from the remote sensor window.

Angle: Within approx. 30 degrees from the center of the remote sensor window.

Remote control will not be possible if there is an obstacle between the remote control unit itself and the remote sensor window. Performance of the remote control unit is adversely affected in the presence of strong fluorescent light. Keep such lights away, especially from the sensor window.

## 6. SPECIFICATIONS

### Amplifier Section

Continuously Average Power Output is 37 Watts\* per channel, min., at 8 ohms from 40 Herz to 20,000 Herz, with no more than 0.4 %\*\* total harmonic distortion.

\* Measured pursuant to the Federal Trade Commission's Trade Regulation rules on Power Output Claims for Amplifiers.

Music power (DIN) .....	80 W + 80 W (1 kHz, T.H.D. 1 %, 8 $\Omega$ )
Continuous Power Output (DIN) .....	45 W + 45 W (1 kHz, T.H.D. 1 %, 8 $\Omega$ )
Peak music power output .....	500 W
Graphic equalizer frequency band.....	60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 15 kHz, $\pm 5.5$ dB
Total Harmonic Distortion (40 Hz to 20,000 Hz, 22.5 W, 8 $\Omega$ )* .....	No more than 0.2 %

### Cassette Deck Section

Systems .....	4 track, 2-channel stereo
Heads .....	Recording/playback head x 1 Playback head x 1 Erasing head x 1
Motor .....	DC servo 2 speed motor x 2
Wow and Flutter .....	No more than 0.09 % (WRMS)
Fast Winding Time .....	Approximately 105 seconds (C-60 tape)
Frequency Response (-20 dB recording):	
Normal tape .....	35 Hz to 14,000 Hz $\pm 6$ dB
CrO <sub>2</sub> tape .....	35 Hz to 15,000 Hz $\pm 6$ dB
Signal-to-Noise ratio .....	56 dB
Dolby NR OFF .....	
Noise Reduction Effect .....	
Dolby B type NR ON .....	More than 10 dB (at 5 kHz)

### Furnished Parts

Operating Instructions .....	1
Remote Control Unit .....	1
Dry Cell Batteries .....	2

### Miscellaneous

Power requirements	
Australian model .....	a.c. 240 Volts - , 50/60 Hz
Other destination models .....	
..... AC 110/120-127/220/240 V (switchable) 50/60 Hz	
Power Consumption .....	336 W
Dimensions .....	360 (W) x 271 (H) x 309 (D) mm 14-3/16 (W) x 10-11/16 (H) x 12-3/16 (D) in
Weight (without package) .....	8 kg (17 lb 11 oz)

### Accessories

EP Adapter .....	1
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\* Specifications and design subject to possible modification without notice due to improvement.

\*\* Measured By Audio Spectrum Analyzer.